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Front Cover

Service Guide

OKICOLOR 8 & OKICOLOR 8n Digital LED Page Printers

Adobe Acrobat printable reference copy of the OKIDATA Service Training Manual. 12/20/99

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Preface

This manual provides procedures and techniques for the troubleshooting, maintenance, and repair of OKICOLOR8.

This manual is written for maintenance personnel, but it should always be accompanied with the OKICOLOR8 User's Manual for procedures for handling and operating OKICOLOR8. For repairing each component of OKICOLOR8, see the Troubleshooting Manual.

[Notices]

The contents of this manual are subject to change without prior notice. Although reasonable efforts have been taken in the preparation of this manual to assure its accuracy, this manual may still contain some errors and omissions. OKI will not be liable for any damage caused or alleged to be caused, by the customer or any other person using this maintenance manual to repair, modify, or alter OKICOLOR8 in any manner.

[Warning]

Many parts of OKICOLOR8 are very sensitive and can be easily damaged by improper servicing. We strongly suggest that OKICOLOR8 be serviced by OKI's authorized technical service engineers.





1.1 Basic System Configuration

This diagram shows the basic system configuration of OKICOLOR 8 is illustrated in Figure 1.1 below.

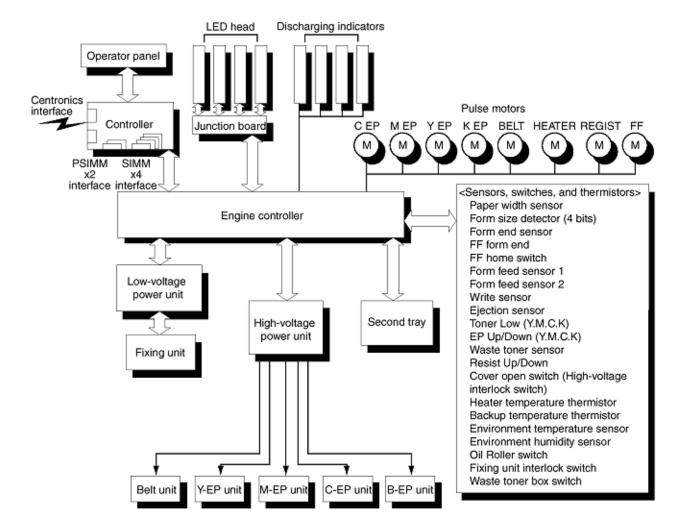
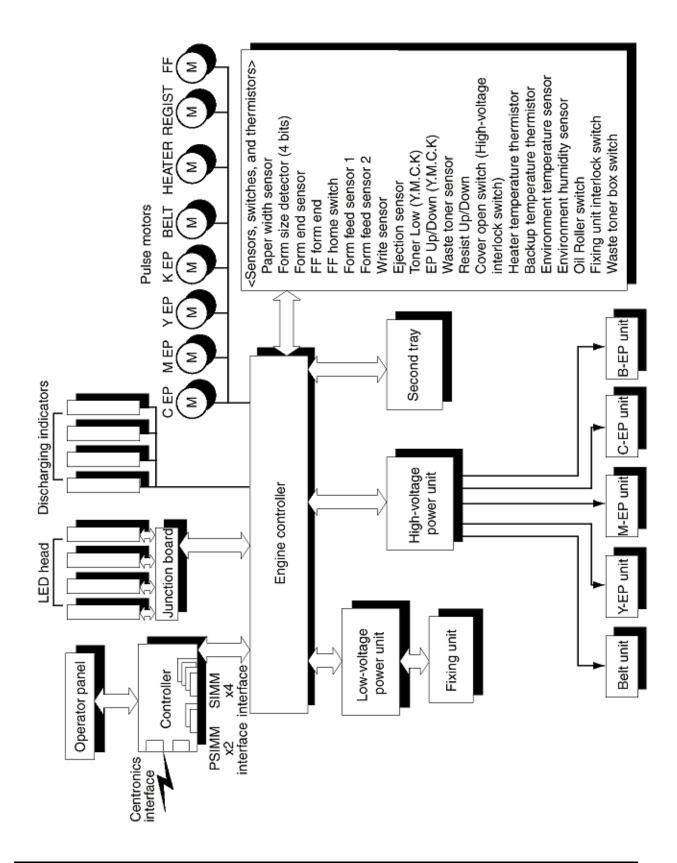


Figure 1.1





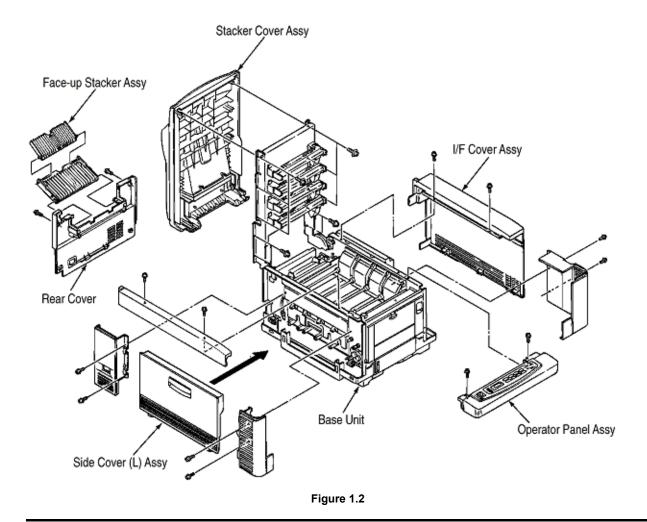


1.2 Printer Specifications

This printer unit is composed of the following hardware.

- Electro-photographic processor
- Paper feeder
- Controller (CU part / PU Part)
- Operator panel
- Power board (High voltage part / PU part)

This diagrams shows the printer unit configuration.



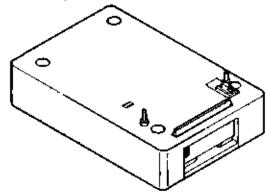




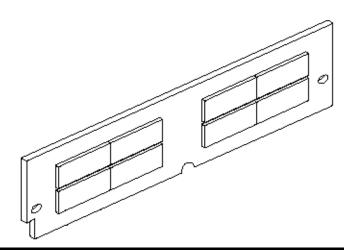
1.3 Option Specifications

The OKICOLOR8 options are listed below.

(1) Second Paper Feeder



- (2) RAM SIMM module (72 pin SIMM, 4MB/8MB/16MB/32MB)
- Make sure to use a set of 2 of the same volume size modules.



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1.4 Basic Specifications

(1) Dimensions Width: 18.8" Length: 24.5" Height: 15.6"

(2) Weight Approx. 106 lbs. without box

(3) Form

Type: Ordinary paper (Hammermill xx lb.) and Transparency (Only 3M CG3710)

Recommended paper (for color printing) Color laser paper (20 lb to 24 lbs.)

Note: the printout color tones are dependent upon the whiteness of the print paper.

Sizes: Letter, Legal (13" or 14"), Executive, A4, A5, B5, and B6 (1st tray and front feeder)

Reams: 1st tray - 20 lbs. to 28 lbs.

2nd tray - 20 lbs. to 28 lbs.

Front feeder - 20 lbs. to 53 lbs. (110 lbs. index)

(4) Printing speed: 8 pages per minute (5 pages per minute: Card Stock, Labels & OHP / 34 lbs. ~ 44

lbs.)

(5) **Resolution** 600 dots per inch x 600 dots per inch

(6) Input voltage 120VAC +5.5%, -15%

230VAC +10%

(7) Power consumption Peak: Typical operation

Idle: Power save mode

(8) **Frequency** 50Hz or 60Hz +2%, -2%

(9) Noises Operating: 54 decibels (without 2nd tray), 55 decibels (with 2nd tray)

Standby: 45 decibels Power-saving: 43 decibels

(10) Expendables and

service life

Toner Cartridge: Approx. 3000 pages (5% density) (each of C, M, Y, and K)

Image Drum: Up to 13,000 pages (5% density, continuous) (each of C, M, Y and K) Waste Toner Box: Up to 25,000 sheets (under typical printout conditions: Single

images of 5% density, equivalent to printout using 14 toner cartridges)

Oil Roller Unit: Up to 10,000 sheets (Life defined in the number of actual printed

paper sheets)

Note: Y=Yellow, M=Magenta, C=Cyan, K=Black

(11) Periodically Fuser Heat Unit Assy: 60,000 pages replaced parts Transfer Belt Cassette Assy: 50,000 pages

(12) Temperatures and relative humidities

Temperature

| Temperature conditions | | | | |
|-------------------------|--------------|-----------|---|--|
| | Fahrenheit | Celsius | Remarks | |
| Operating | 60.8 to 89.6 | 16 to 32 | 17 Celsius to 27 Celsius (for assurance of | |
| | | | full-color printout quality) | |
| Non-operating | 50 to 109.4 | 10 to 43 | Power off | |
| Storage (1 year max.) | -33 to 109.4 | 6 to 43 | with drum and toner | |
| Delivery (1 month max.) | -20 to 122 | -29 to 50 | without drum and toner and Belt Cassette Assy | |
| Delivery (1 month max.) | -20 to 122 | -29 to 50 | with drum and toner | |

Humidity

| Humidity condition | | | | |
|--------------------|------------|---------|---|--|
| | Fahrenheit | Celsius | Remarks | |
| Operating | 20 to 80 | 25 | 50% to 70% (for assurance of full-color printout quality) | |
| Non-operating | 10 to 90 | 26.8 | Power off | |
| Storage | 10 to 90 | 35 | | |
| Delivery | 10 to 90 | 40 | | |





2. Operation

OKICOLOR8 is a tandem color electrophotographic page printer, using 4992 Pixel-LED technologies, OPC, dry single-component non-magnetic developing, roller transfer, heat-compression fixing (fusing). The printing method used is a Black Writing method which applies light beams to printout areas.

Here is the Functional Block Diagram of OKICOLOR8.

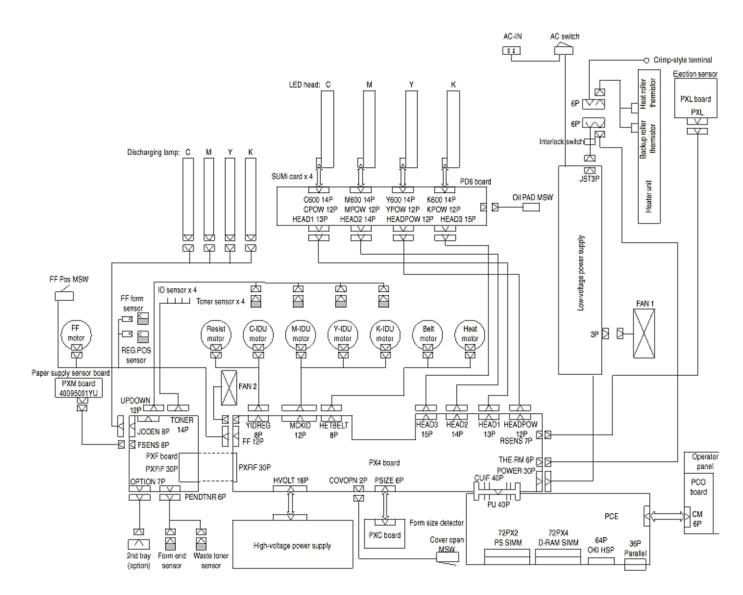
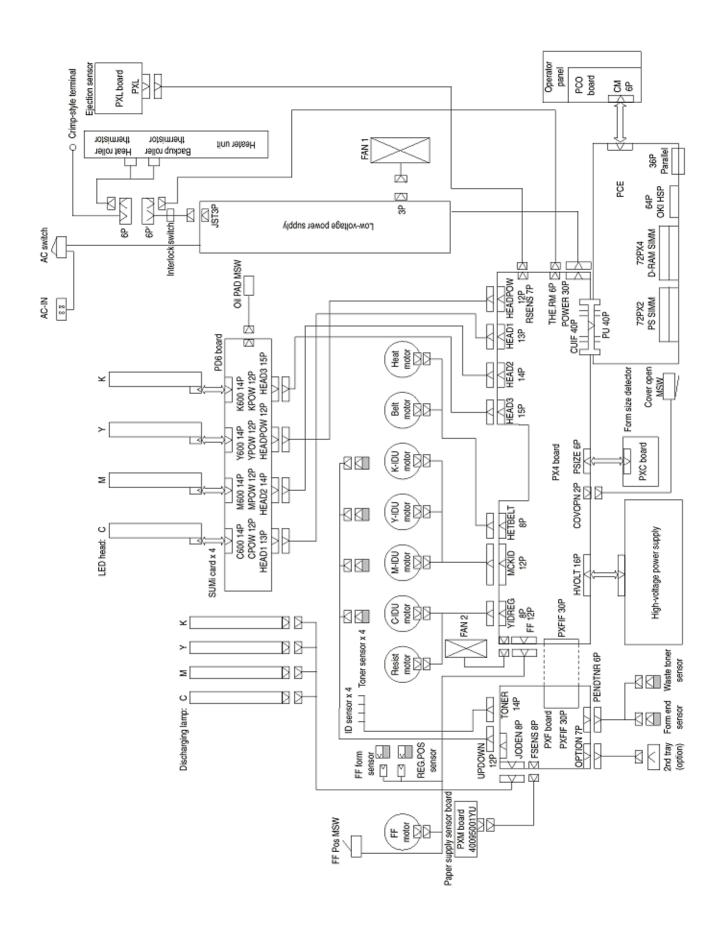


Figure 2.1







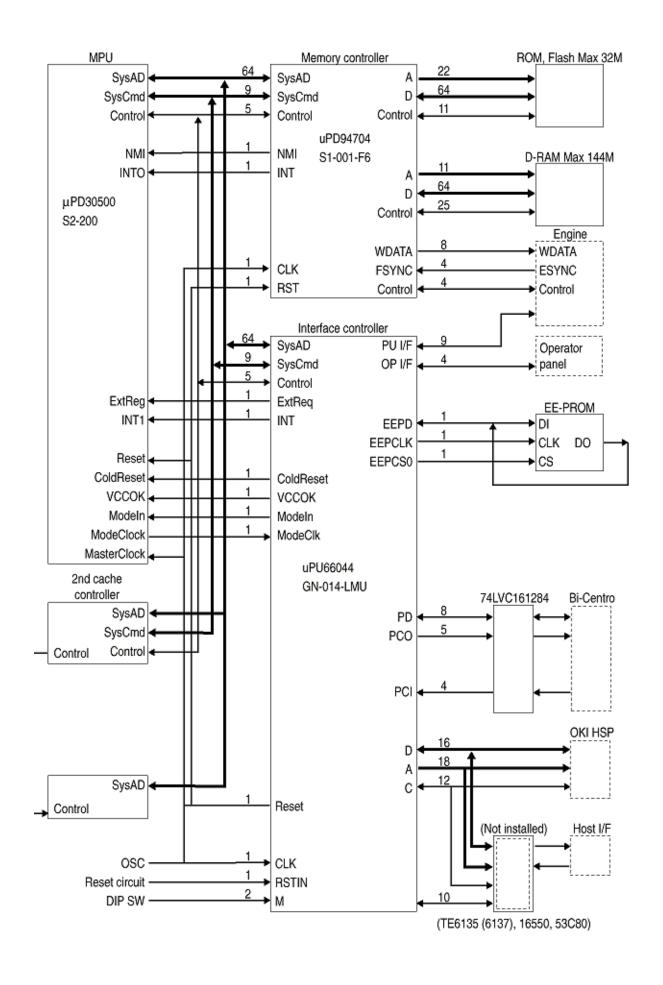
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2.1 Main Control Board (PCE PCB)

The control board consists of a CPU block, a memory control LSI block, an interface control LSI block, a DRAM block, an EEPROM block, a mask ROM block, and an interface block.

Here is the Functional Block Diagram of the main control board (PCE PCB).



Functional Block Diagram of Main Control Board

(1) CPU

The CPU is a 64-bit RISC architecture processor (provided by NEC). It inputs a frequency of 50 MHz and runs at 200 MHz. It transfers data to a from memory at 50 MHz.

(2) Mask ROM

The mask ROM block consists of four 16 Mbit (1M x 16 bits) chips and its total size is 8M bytes. The chips are mounted on the PCE-PCB by means of IC sockets and store programs and character fonts.

(3) DRAM

The DRAM block consists of eight 16 Mbit (1M x 16bits) chips and its total size is 16M bytes. The chips are mounted on the PCE-PCB and can be expanded up to 144M bytes by adding the 32M byte SIMMs to the SIMM slots on the PCE-PCB.

(4) EEPROM

The EEPROM block consists of 16K-bit chips mounted on a board by means of IC sockets and stores the following:

- Menu data
- Counter values
- Adjustment values

(5) Flash ROM

The Flash ROM block consists of four 4M bit (256K x 16bits) chips and its total size is 2M bytes. The chips are mounted on the PCE-PCB and are used for storing fonts, macro and demo pages.

(6) Memory control LSI

This block mainly consists of memory control, CPU control, compression and decompression, and video interface functions.

(7) Interface control LSI

This block mainly consists of PU interface control, operator panel interface control, EEPROM control, parallel interface control, and HSP control functions.

(8) Host interface

The printer has the following interfaces to the host.

- Centronics bi-directional parallel interface
- Network interface (Option)

The single effective interface or the automatic interface select mode can be selected using the menu. If the busy state of the printer continues for a long time period, the buffer near-full control releases the busy status at constant intervals even if the host side is busy so as not to cause interface time-out at the host side.

(a) Centronics bi-directional parallel interface

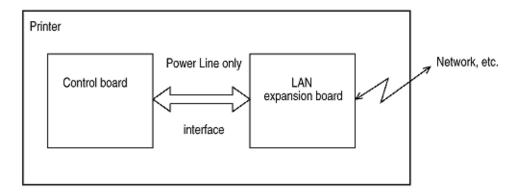
This is an interface confirming to IEEE-1284 and provides either unidirectional ad bi-directional communications according to each of the following communication modes.

- Compatibility mode Unidirectional communications from the host to the printer.
- Nibble mode This mode transfers 4-bit wide data from the printer to the host. In this mode, each bit of 1-byte data transmits in the form of two nibbles using ERROR, BUSY, FAULT, and SELECT signal leads. This mode can provide bi-directional operation in combination with the compatibility mode.
- ECP mode This mode provides the asynchronous bi-directional interface and transmits and receives 1-byte data using eight data signal leads under semi-duplex control by the host.

When the power is turned on, the compatibility mode is automatically selected. The change to another mode form the compatibility mode is made through negotiation. (When the BI-DIRECTION is set to ENABLE in the menu, this change can be performed.) (For the electrical/physical characteristics of this interface, see APPENDIX B).

(b) Network interface (Option)

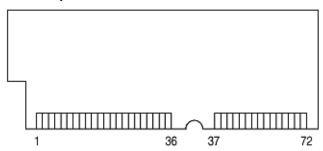
Network interface card uses the power line only.



(9) This printer has the 2nd Cache unit which type is Write Through Cache and size is 512 KByte. There are any difference between the instruction and data. All of the CPU read/write access are cached to same 2nd cache memory.

(10) **RAM** module

Pin layout



Basic specification

Type: Access time:

72 pins SIMM (32 bits buss width) 60ns, 70ns, 80ns 4, 8, 16, or 32 Capacity: Parity:

None





2.2 Engine Control Board (PX4 PCB) ANALOG INPUT

(Heater temperatures and environmental humidity and temperature)

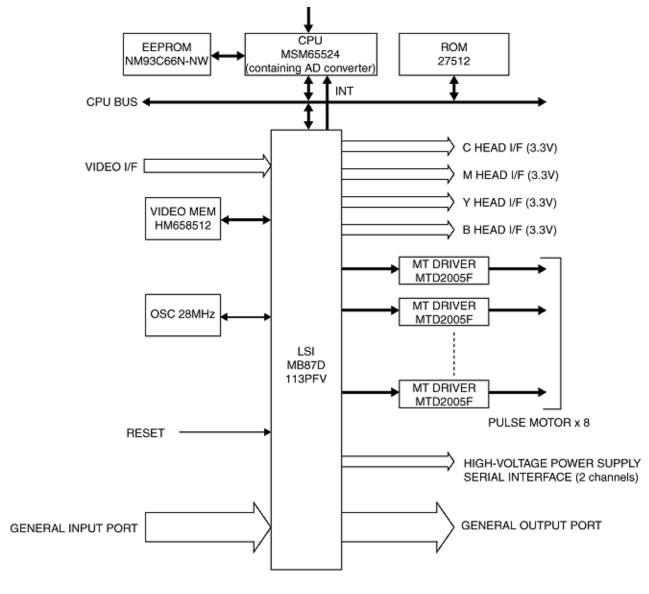


Figure 2.4

Engine Control Board Block Diagram

The engine control block (PU) is controlled by the engine control board (PX4 PCB) which consists of a CPU (MSM65524), general purpose LSI chips, EPROM, EEPROM, pulse motor drivers, and video memory. Refer to the Engine Control Board Block Diagram above.

(1) CPU

This is an 8-bit CPU (OKI MSM65524) containing the AD converter and controls the whole system.

(2) General-purpose LSI

This LSI (MB87D113PFV) is provided in the printer engine control block and has controller-engine video interface, LED interface, motor control, sensor input, video memory control, main scanning color correction, skew correction, high-voltage power control, and OST-EX2 functions.

(3) EPROM

This EPROM (275C512-150) has a storage capacity of 512K bits and stores programs for the PU block.

(4) EEPROM

This EEPROM (NM93C66N-NW) has a storage capacity of 4K bits. It is mounted on the board by means of IC socket and stores adjustment values.

(5) Pulse motor drivers

These drivers (MTD2005F) drive eight pulse motors for moving up and down the image drum (EP) and transferring medium.

(6) Video memory

This SRAM received print data through video interface and stores it.





Service Guide - OKICOLOR8 Chapter 2 Operation

2.3 Power/Board

The power board consists of an AC filter circuit, a low voltage power supply circuit, a high voltage power supply circuit, and heater drive circuit, and photo sensors.

(1) Low voltage power supply circuit.

This circuit generates the following voltages.

| Output voltage | Use |
|----------------|---|
| +3.3 V | CU Unit CPU, LED HEAD |
| +5 V | Logic circuit supply voltage |
| +32 V | Motor and fan drive voltage and source voltage for high-voltage supply, discharge |
| | lamp |
| +12 V | HSP, OP Amp, high voltage power supply |
| -12 V | HSP |

(2) High voltage power supply circuit

This circuit generates the following voltages necessary for electro-photographic processing from +32 V in accordance with the control sequence from the control board. When cover open state is detected, +32 V supply is automatically interrupted to stop the supply of all high-voltage outputs.

Y M C K = Yellow, Magenta, Cyan, Black

| Output | Voltage | Use | Remarks |
|--------|---|--|----------|
| СН | -1.35 KV ±50V | Voltage applied to charging roller | |
| DB | Normal paper | Voltage applied to developing roller | |
| | Y.M.C.K.: -250V/+300V, -232V/+300V (First paper: Y only) | | |
| | K.: -270V/+300V | | |
| | Transparency | | |
| | Y.M.C.: -200V/+300V, K.: -250V/+300V | | |
| SB | Y.M.C.K.: -650V/0V | Voltage applied to toner supply roller | |
| TR | 0 to 4 KV | Voltage applied to transfer roller | Variable |
| FIX | 0 to 2.5 KV | Voltage applied to transfer roller | Variable |



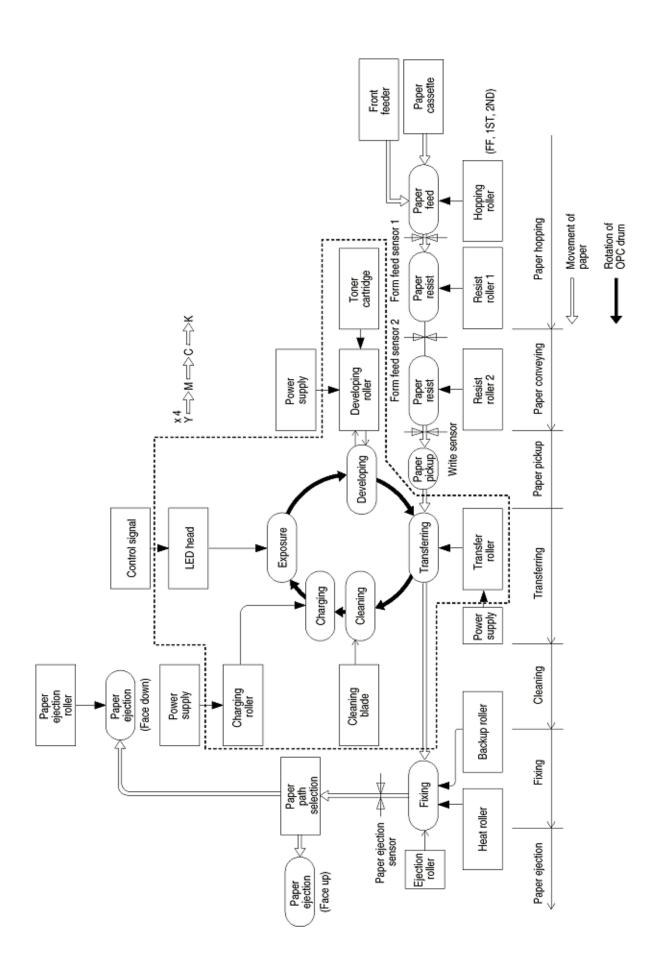


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2.4 Mechanical Processes

Here is the Mechanical Process Diagram of OKICOLOR8.



Mechanical Process Diagram (Figure 2.5)

| 2 1 1 | Flectropho | toaranhic | processing | machaniem |
|--------|-------------|-----------|------------|-----------|
| Z.4. I | Electropilo | tourabnic | brocessina | mechanism |

2.4.2 Paper running process

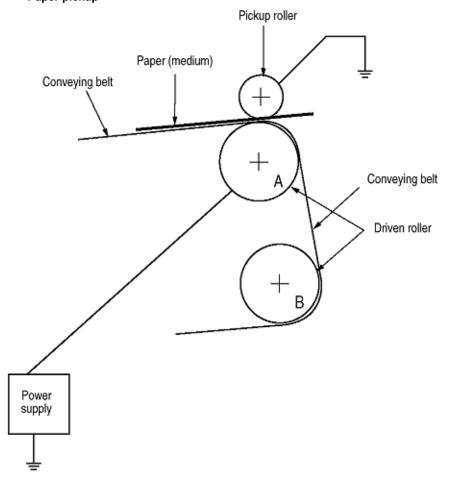




2.4.1 Electrophotographic processing mechanism

- (1) Electrophotographic processes Each process of the electrophotographic processing mechanism is outlined below.
 - (1) Paper pickup This process causes the roller to give a DC voltage to the paper, resulting in a negative charge. With this negative charge, the paper is electrostatically attracted to the roller.
 - **(2) Charging** This process gives a DC voltage to the charge roller so that the image drum may have a uniform negative charge on its surface.
 - (3) Exposure This process causes the LED head to apply light beams according to image signals to the negatively-charged surface of the image drum. The negative charge on the illuminated surface of the image drum is reduced according to magnitudes of the light beams. Thus, a latent image is formed on the surface of the image drum according to the resulting surface potentials.
 - **(4) Developing and recovery of excessive toner** This process applies negatively-charged toner to the surface of the image drum. The toner is electrostatically attracted to the latent image to form a visible image on the surface of the image drum. Simultaneously, this process electrostatically transfers excessive toner from the image drum to the developing roller.
 - **(5) Transferring** This process fits paper to the surface of the image drum and applies positive charge (opposite to the charge of the toner) to the back side of the paper from the transfer roller. The toner image is transferred to the paper.
 - **(6) Cleaning** Cleaning blade scrapes off the remaining toner of any image drum, which has been used to transfer the image drum the drum to the paper.
 - (7) Fixing This process fixes the toner image on the paper by pressing the fusing the image.

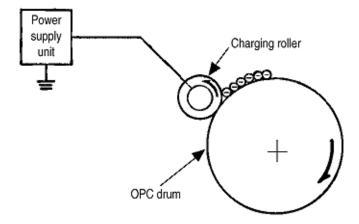
(2) Paper pickup



A DC voltage (0V to 2KV) is applied to the driven roller A, to create a positive charge on the lower surface of the paper. The

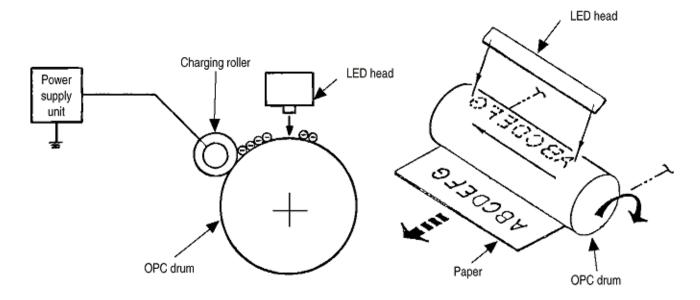
kept in charged paper is electrostatically attracted to the pickup roller. The paper is in close contact with the conveying Belt and moves steadily.

(3) Charging - This process applies a DC voltage to the charging roller in contact with the surface of the image drum.

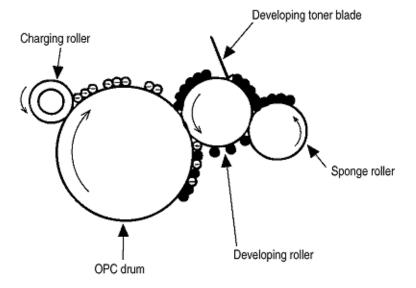


(4) Exposure - The light beams from the LED head are applied to the surface of the image drum which is charged negatively. The negative charge on the illuminated surface f the image drum is reduced according to the magnitude of the

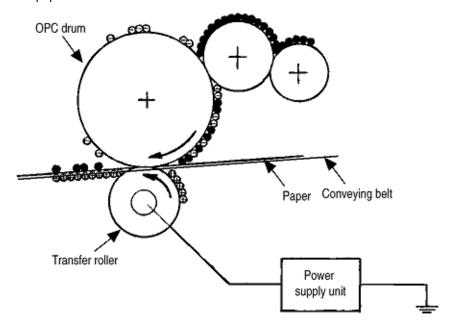
light beams and a latent image is formed on the surface of the image drum according to the resulting surface potentials.



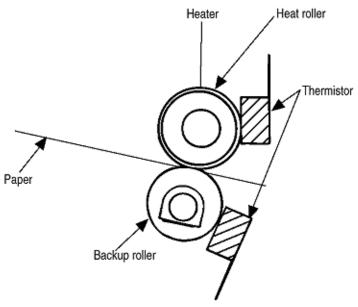
- (5) Developing This process applies toner to the latent image on the surface of the drum to create a toner image. Developing is carried out on the surface of the image drum at where the image contacts with the developing roller.
 - (1) The sponge roller transfers toner to the developing roller. The toner is charged negatively.



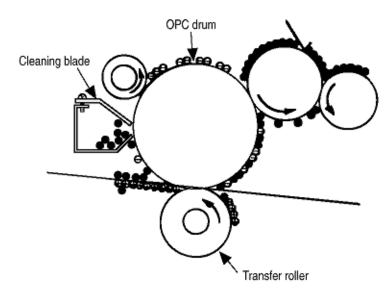
- (2) The toner blade scrapes away excess toner from the developing roller, leaving a thin film of toner on the surface of the developing roller.
- (3) The toner is attracted to the latent image on the surface of the image drum, where the image drum contacts the developing roller. The latent image on the surface of the image drum is made visible with the toner.
- **(6) Transferring** The transfer roller made of conductive sponge presses the paper against the surface of the image drum. The paper will make close contact with the surface of the image drum. This process fits the paper to the surface of the image drum (using the transfer roller) and applies a positive charge (opposite to the charge of the toner) from under the paper. When a positive high voltage is applied to the transfer roller from the power supply, the positive charge induced on the transfer roller jumps to the upper surface of the paper (where the transfer roller touches the paper) and attracts the negatively-charged toner from the surface of the image drum onto the surface of the paper.



(7) Fixing - The toner image just transferred to the paper is fused and fixed to the paper while the paper is passing through the gap between the heat roller and the backup roller. The teflon-coated surface of the heat roller is heated by the 800-watt heater (or a halogen lamp) in the heat roller. The temperature of the heat roller surface is controlled by a thermistor in contact with the surface of the heat roller. A thermostat is provided for safety. When the heat roller temperature rises above the preset temperature, the thermostat opens and shuts off power to the heater in the heat roller. The backup roller is evenly pushed against the heat roller by two end springs.



(8) Cleaning - The toner which remains on the (OPC) Image Drum without being fused is scraped by a cleaning blade and discarded in the waste toner tank.





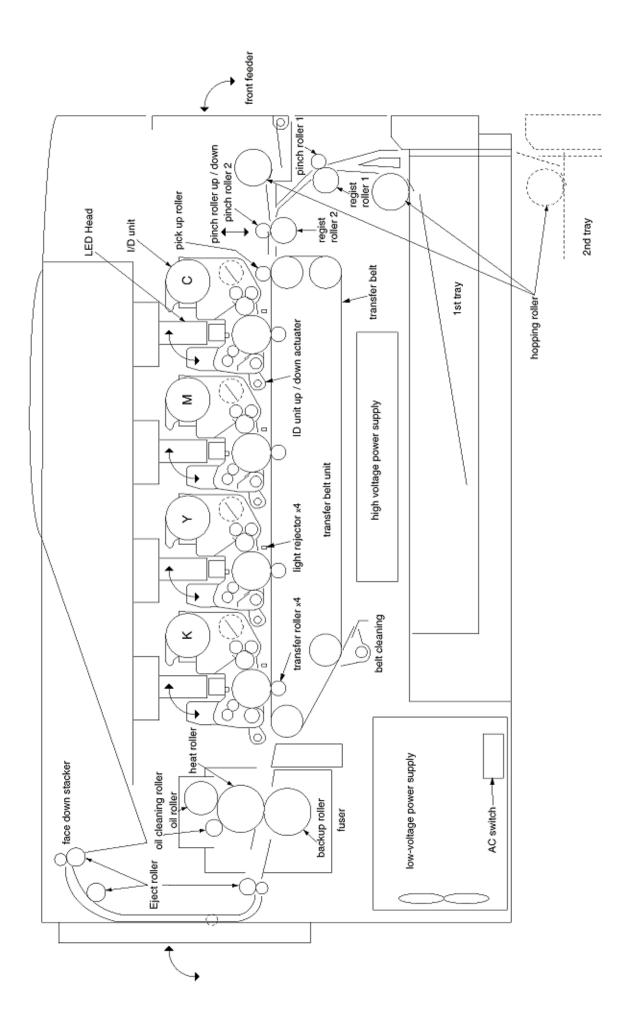


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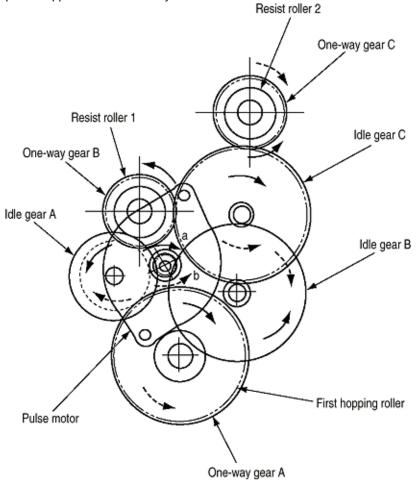
2.4.2 Paper running processHow paper moves through the OKICOLOR8 is shown in the Paper Route Diagram.

Y=Yellow; M=Magenta; C=Cyan; K=Black



(1) Paper hopping and transfer and up/down movement of pinch roller 2

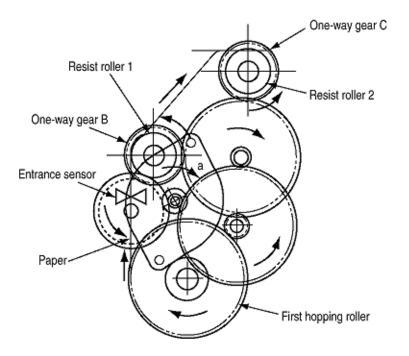
Paper is hopped and delivered by the mechanism shown below. This mechanism is driven by a single pulse motor.



The pulse motor turns in the arrow direction (a) and drives the hopping roller in the direction of "b". The hopping roller drives the resist roller. Gears A, B, and C, have one-way clutches to prevent the roller form rotating reversely.

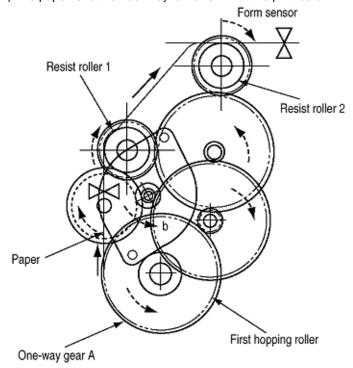
a) Hopping

- (1) The pulse motor turns in the arrow direction of "a" (counterclockwise) and drives the hopping roller to move the paper until the Entrance sensor turns on. Although the one-way gears B and C are driven, the resist roller 2 does no turn.
 The reverse rotations of the one-way clutch gears are not transmitted to the resist roller.
- (2) After the Entrance sensor turns on, the hopping roller keeps on feeding the paper until it hits the resist roller 1. This operation corrections any paper skew.

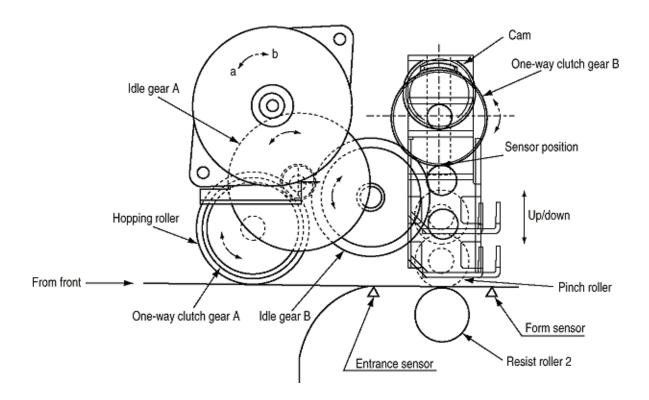


b) Conveying

- (1) After paper hopping is completed, the pulse motor turns right (in the direction of "b") to drive the resist rollers 1 and 2. The resist rollers feed the paper until the Form sensor turns on. Although the one-way gear A is also driven, the hopping roller does not turn because of the one-way clutch.
- (2) The paper is further fed in synchronism with the print data.



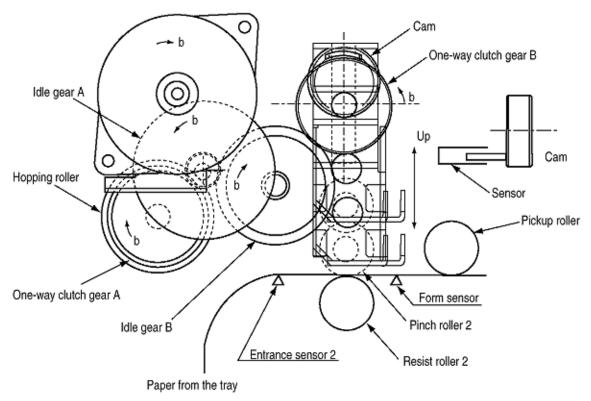
(2) The hopping operation of the front feeder and the up/down operation of the pinch roller 2 are performed by a single pulse motor.



When the pulse motor of the front feeder turns right (in the direction of "A"), the front hopping roller turns left (in the direction of "b") to drive the cam. This cam moves up an down the pinch roller 2. The one-way clutch gears are made to turn only in a present direction by means of the one-way clutches.

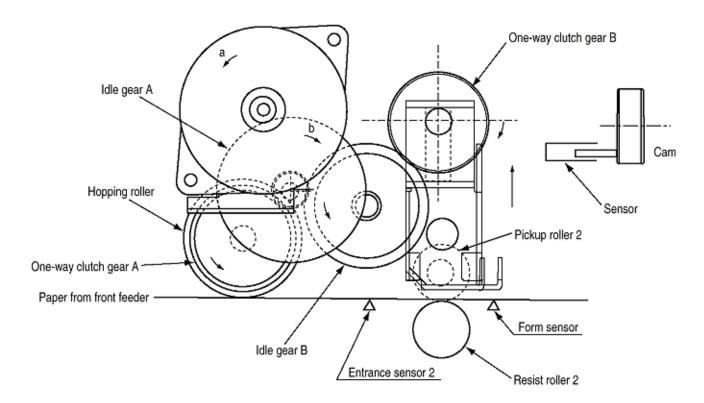
(a) First and second hopping rollers

- 1 When the front edge of the paper passes by the pickup roller, the pulse motor of the front feeder turns counter-clockwise (in the direction of "b" to drive the cam. The cam moves up the pinch roller 2. Although the one-way clutch gear A is also rotating, the hopping roller of the front feeder does not rotate (because of the one-way clutch).
- 2 When the rear edge of the paper passes by the Entrance sensor 2, the pulse motor of the front feeder turns counter-clockwise (in the direction of "b") to drive the cam. The cam moves down the pinch roller 2 until it is sensed by the sensor. Although the one-way clutch gear A is also rotating, the hopping roller of the front feeder does not rotate (because of the one-way clutch).



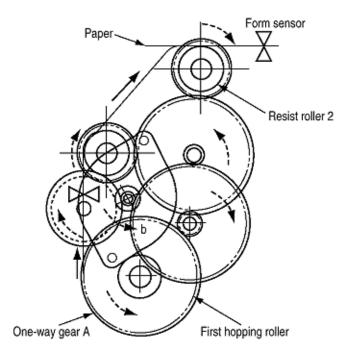
(b) Front feeding hopping

- (1) The pulse motor of the front feeder turns right (in the direction of "a") to drive the hopping roller. The paper feeds until the Entrance sensor 2 is activated. Although the one-way clutch gear B is also rotating, the pinch roller 2 does not drive the up/down cam (because of the one-way clutch). After the Entrance sensor is activated, the paper feeds until it reaches the resist roller.
- (2) This operation corrects any paper skew.



(c) Conveying

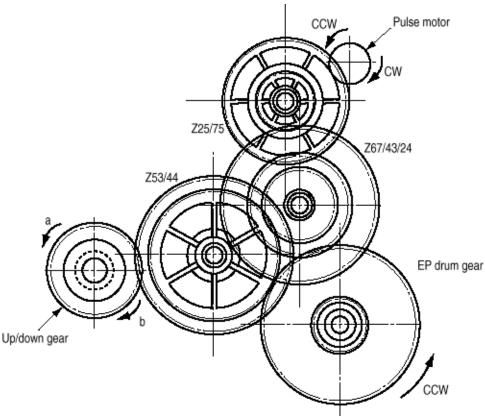
- (1) After paper hopping is completed, the pulse motor turns right (in the direction of "b") to drive the resist rollers 1 and 2. The resist rollers feed the paper until the Form sensor turns on.
- (2) Although the one-way gear A is also driven, the first hoping roller does not turn (because of the one-way clutch).



(2) Up/down movement of the image drum unit and rotation of the image drum.

The up/down movement of the image drum unit and the rotation of the image drum are performed by a mechanism shown below. (See Figure 2.6-a). This mechanism is driven by a single pulse motor.

When the pulse motor turns left (Counter-clockwise), the up/down gear turns left (in the direction of "a"), and the up/down lever (see Figure 2.6-b) moves up (in the direction of "a". The up/down lever pushes up the up/down actuator of the image drum unit. The image drum unit moves up as shown in Figure 2.6-b). The image drum rotates freely.



When the pulse motor (see Figure 2.6-a) turns right (Counter-clockwise), the image drum gear turns left (Counter-clockwise) and the up/down gear (one-way gear) is released. The weight of the image drum unit is applied to the up/down lever via the up/down actuator of the image drum unit. The free up/down gear turns right (in the direction "b" in Figure 2.6-a), and the image drum unit goes down until the up/down actuator of the image drum unit is stopped by the up/down lever. (See Figure 2.6-c). During this, the image is transferred onto the running paper.

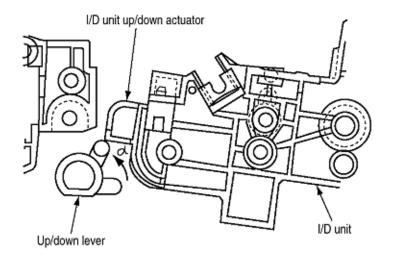


Figure 2.6-b

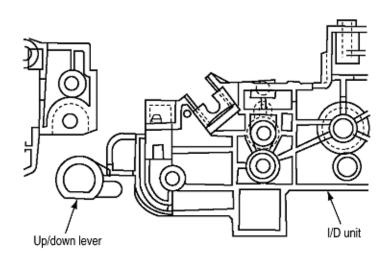
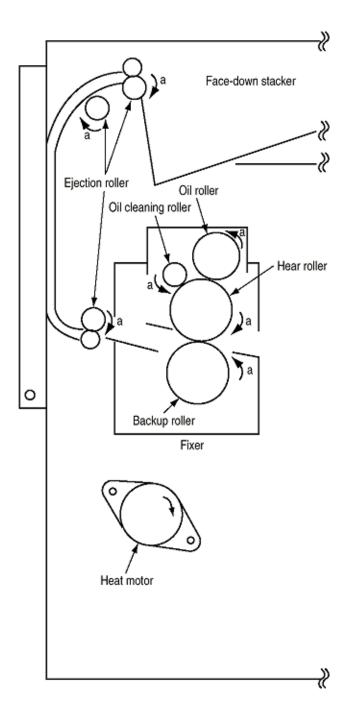


Figure 2.6-c (3) Lubrication and cleaning of fixing, ejecting, and heat rollers.



The fixing roller, the ejecting roller, and the heat roller are lubricated and cleaned by a single pulse motor.

When the heat roller pulse motor turns right (in the direction of "a"), the heat roller and the backup roller turn left (in the direction of "a") to fix a toner image onto the paper.

At the same time, three ejection rollers turn right (in the direction of "a") to eject the paper. The oil roller and the oil cleaning roller turn left (in the direction of "a") to supply oil to the surface of the heat roller and clean the surface.





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2.5 Sensors

2.5.1 Paper related sensors

2.5.2 Other sensors

Resist roller 2

FF sensor 2

Second hopping roller

First hopping roller

FF sensor 1

Auxiliary rollers





Belt cleaning blade

2.5.1 Paper Related Sensors Ejection roller FF hopping roller Write sensor K drum Y drum M drum C drum Heat roller Pickup roller Pinch roller 2 Driving roller Exit sensor Form width sensor Driven rollers < Pinch roller 1 Resist roller 1 Backup roller

Conveying belt

| Sensor | Function | Sensor status |
|-----------------------|---|-------------------------|
| FF sensor 1/2 | Detects the front edge of an incoming paper and | ON: Front edge detected |
| (Entrance sensor 1/2) | intrance sensor 1/2) determines timing to change from hopping to conveying. | |
| | | detected |
| Write sensor | | ON: Form present |
| | determines the length of the paper sheet from elapsed time before the front edge of the paper reaches the | OFF: Form absent |
| | sensor. | |
| Ejection sensor | Detects the front and rear edges of a paper sheet and | ON: Form present |
| | determines whether the paper is ejected. | OFF: Form ejected |



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2.5.2 Other sensors

(1) Form end sensor

This sensor checks whether the paper cassette is empty.

(2) Front Feeder form end sensor

This sensor checks whether the front feeder has paper.

(3) Front Feeder home switch

The microswitch checks whether the front feeder stage is in the up or down position.

(4) Image Drum

Image drum up/down sensor (one for each color C, M, Y, K) C = Cyan, M = Magenta, Y = Yellow, K = Black

(5) Waste toner sensor

This sensor judges whether the waste toner cartridge is full by measuring a time period at which the sensor lever turns on periodically. When the time period falls under a preset value, the system judges that the waste toner cartridge is full and displays the "waste toner full" message.

(6) Resist up/down sensor

This sensor detects the up or down position of the resist roller 2.

(7) Temperature sensor

Refer to 2.7 (Transfer Control according to Environmental Changes)

(8) Humidity sensor

Refer to 2.7 (Transfer Control according to Environmental Changes)





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2.6 Correction of Color Deviation

OKICOLOR8 is equipped with an array of I/D units which cannot be from generation of color deviations. This mechanically caused color deviation is corrected electronically as shown below.

(1) Color deviations to be corrected

- 1 Color deviation in the X axis (Positional error of the LED head)
- 2 Diagonal color deviation (Positional error of the LED head)
- 3 Color deviation in the Y axis (Positional errors of the I/D units and light receivers)
- (2) Method of correction Print out the preset color chart, compare the printed color chart by the original color chart, and enter the amount of color deviation of each color from the operator panel or from the host computer. OKICOLOR8 calculates correction values from the entered values and changes the write timing of each color (cyan, magenta, and yellow) relative to black.





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2.7 Transfer Control according to Environmental Changes
Transfer Control according to Environmental Changes (Room Temperatures and Relative Humidities)

OKICOLOR8 measures the room temperature and humidity. It uses a room temperature sensor and a room humidity sensor. An optimum transfer voltage is calculated, using the obtained environmental conditions. The unit then prints, using the optimum transfer voltage.





2.8 Form Jam Detection

OKICOLOR8 checks for a paper jam when the page printer is powered on, and during printing. When a paper jam is found, the OKICOLOR8 immediately stops the printing process. To recover the printer, open the cover, find and remove the jammed paper, then close the cover.

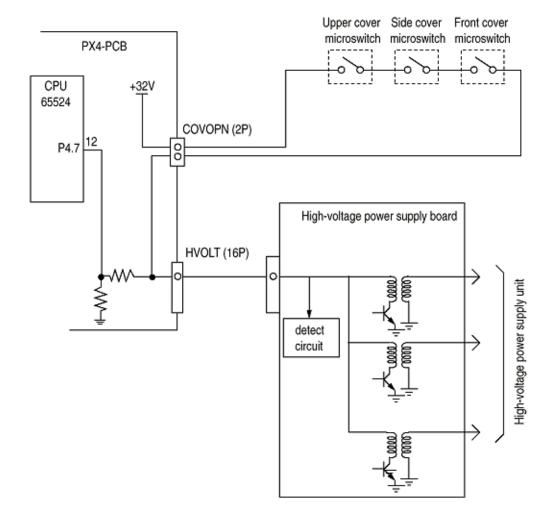
| Error | Conditions | | |
|-----------------|--|--|--|
| Form feed jam | Three hopping operations are made, but the Form Feed sensor (Entrance) | | |
| | does not turn on within a preset time after the Form Feed sensor 1 turns on. | | |
| Convey jam | The ejection sensor does not turn on within a preset time period after the Write | | |
| | sensor detects the front end of paper. | | |
| Ejection jam | The eject sensor detected the front edge of the paper, but does not detect th | | |
| | rear edge of the paper within a preset time period. | | |
| Form size error | The form size (obtained by measuring the time period between the rear edge of | | |
| | the paper passes by the Form Feed sensor 2 after the front edge of the paper | | |
| | passed the Write sensor) is longer by 45mm than the specified form length. | | |





2.9 Cover Opening

When the upper, side, or front cover of the OKICOLOR8 is opened, the Cover open microswitch turns off, the voltage of 32V to the high-voltage power supply is shut off, and all high-voltage outputs are shut off. At the same time, the CPU receives a signal (CVOPN), (indicating the status of the microswitch), and performs the cover open process.



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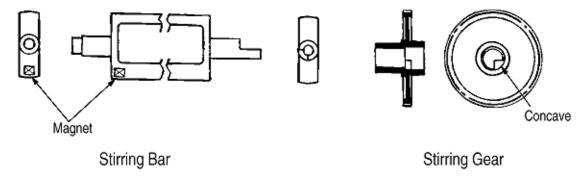




2.10 Toner Lower Detection

Composition

The device consists of the stirring gear (which rotates at a constant rate), the stirring bar, and the magnet on the stirring bar. The stirring bar rotates by engaging with the concave section in the stirring gear.

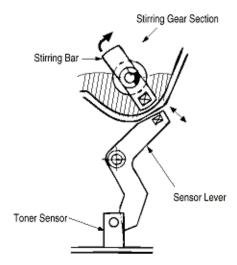


Operation

Toner Low is detected by monitoring the time interval between engagement of the magnet set on the sensor lever and the magnet on the stirring bar.

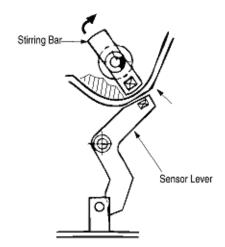
OPERATION during toner full state

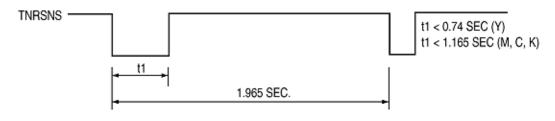
- The stirring bar rotates by interlocking with the stirring gear.
- When the magnet on the stirring bar reaches its maximum height, the other end of the bar is dipped in the toner. The stirring bar is pushed by the stirring gear.



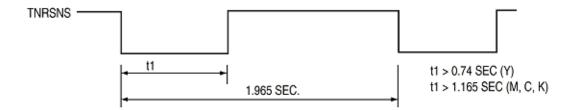
Operation during toner low state

- When the stirring bar reaches the maximum height, the lack of toner provides no resistance on the other end. The bar falls to the minimum height, due to its own weight.
- The time length of the encounter (between the stirring bar magnet and the sensor lever magnet), counter with the magnet of the sensor lever becomes long. By monitoring this time interval, toner low is detected.





TONER LOW state



- When the toner low state is detected 2 times consecutively, Toner Low is established.
- When the toner full state is detected 2 times consecutively, Toner Low is canceled.
- When there is no change with the toner sensor for 2 cycles (1.965 sec. x 2) or more, the Toner Sensor Alarm is activated.
- The toner sensor is not monitored while the drum motor is in halt.



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2.11 Page Size Detection

The four tab pieces are driven according to the setting position of the paper guide (through the cam interlocked with the paper guide of the paper cassette).

When the paper cassette is inserted into the printer, the position of the tab pieces is detected by a microswitch, recognizing the paper size.

STATE OF MICROSWITCHES

| SW1 | SW2 | SW3 | SW4 | Paper size |
|-----|-----|-----|-----|------------|
| 0 | 1 | 1 | 1 | Letter |
| 0 | 1 | 0 | 1 | Executive |
| 0 | 0 | 1 | 1 | A4 |
| 1 | 1 | 1 | 0 | Legal 14 |
| 1 | 0 | 1 | 1 | Legal 13 |
| 1 | 1 | 0 | 1 | B5 |
| 1 | 1 | 0 | 0 | A5 |
| 1 | 0 | 0 | 1 | A6 |





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2.12 Power-on Processing 2.12.1 Self-diagnostic test

(1) Initial test

The following check are automatically performed when the printer is power on:

- (a) ROM check
- (b) RAM check
- (c) EEPROM check
- (d) Flash ROM check

(2) ROM check

(a) Checks ROM by comparing the sum of bits in the received data unit by the number of bits in the transferred data unit.

(3) RAM check

- (a) Checks RAM by writing a preset data patter in RAM, reading the contents of RAM, and comparing the data read from RAM by the data written in RAM. (Write-read test).
- (b) Checks optional RAM (if it is installed).
- (c) Checks resident RAM by exclusively O Ring high and low addresses (to prepare 16-bit data units), writing a preset 16-bit data patter in RAM, reading the contents of RAM, and comparing the data read from RAM by the data written in RAM. Checks optional RAM by writing and reading 32-bit fixed patterns ("5555h" and "aaaah") in optional RAM.

(4) EEPROM check

- (a) Checks identification numbers stored in the fixed addresses of EEPROM.
- (b) Checks the contents of the menu area (by control firmware) and the engine area (by engine firmware).

(5) Flash ROM check

Checks Flash ROM by writing a present data pattern in Flash ROM, reading the contents of Flash ROM, and comparing the data read from Flash ROM by the data written in Flash ROM. (Write-read test).

(6) Option check unit

Checks whether the optional units (such as the second tray, and PS SIMM) have been installed before entering the operation mode.





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- 3.0 Parts Replacement
- 3.1 Precautions for Parts Replacement
- 3.2 Parts Layout
- 3.3 How to Change Parts





3.1 Precautions for Parts Replacement

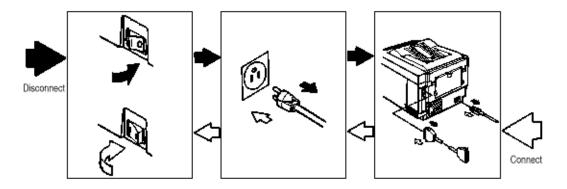
(1) Before starting parts replacement, remove the AC cable and interface cable.

(a) Removing the AC cable

- i) Turn off ("o") the power switch of the printer.
- ii) Disconnect the AC inlet plug of the AC cable from the AC receptacle.
- iii) Disconnect the AC cable and interface cable from the printer.

(b) Reconnecting the AC cable

- i) Connect the AC cable and interface cable to the printer.
- ii) Connect the AC inlet plug to the AC receptacle.
- iii) Turn on ("I") the power switch of the printer.



- (2) Do not disassemble the printer, if operating normally.
- (3) Do not remove unnecessary parts: try to keep disassembly to a minimum.
- (4) Use specified service tools.
- (5) When disassembling, follow the determined sequence. Otherwise, parts may be damaged.
- (6) Since screws, collars and other small parts are likely to be lost, they should temporarily be attached to the original positions.
- (7) When handling ICs such as microprocessors, ROM and RAM, and circuit boards, follow standard electrostatic procedures.
- (8) Do not place printed circuit boards directly on the equipment or floor.

| No. | Service Tools | Tools | Qty | Place of Use | Remarks |
|-----|-------------------|--|-----|-----------------|---------|
| 1 | | No. 1-100 Philips screwdriver | 1 | 2-2.5 mm screws | |
| 2 | | No. 2-200 Philips screwdriver, Magnetized | 1 | 3-5 mm screws | |
| 3 | | No. 3-100 screwdriver | 1 | | |
| 4 | (133) | No. 5-200 screwdriver | 1 | | |

| 5 | (6) | Digital multimeter | 1 | |
|---|------------|----------------------------------|---|--------------------|
| 6 | | Pliers | 1 | |
| 7 | P | Handy cleaner | 1 | |
| 8 | | LED Head cleaner P/N 51802901 | 1 | Cleans LED head |





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3.2 Parts Layout

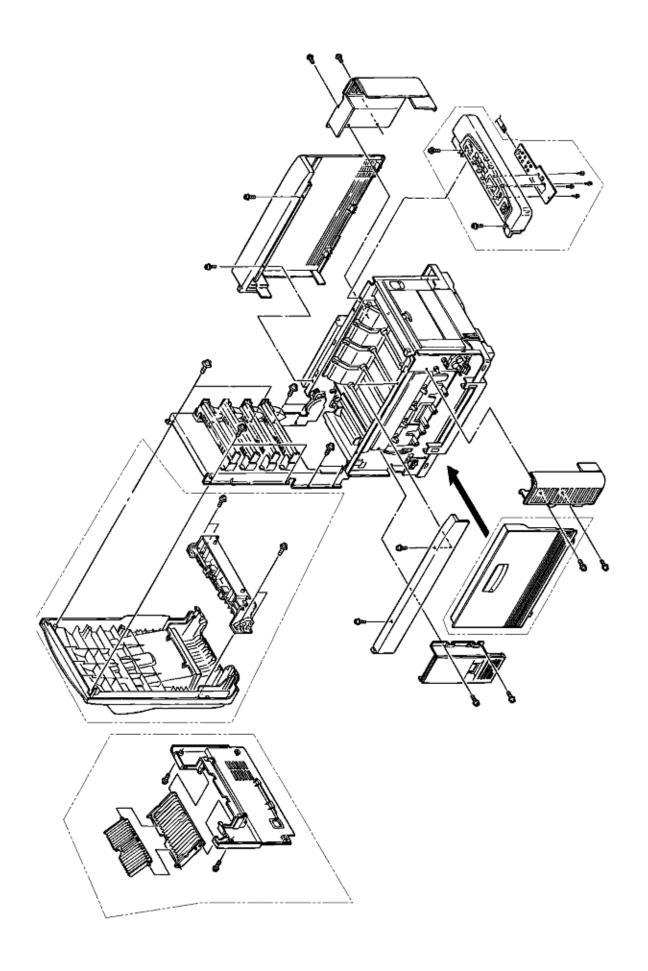


Figure 3-1, Covers

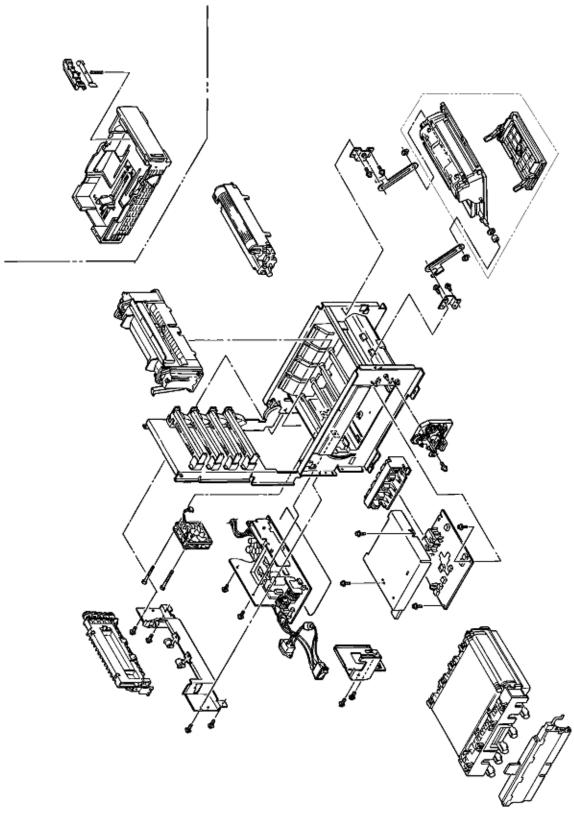


Figure 3-2, Print Assemblies

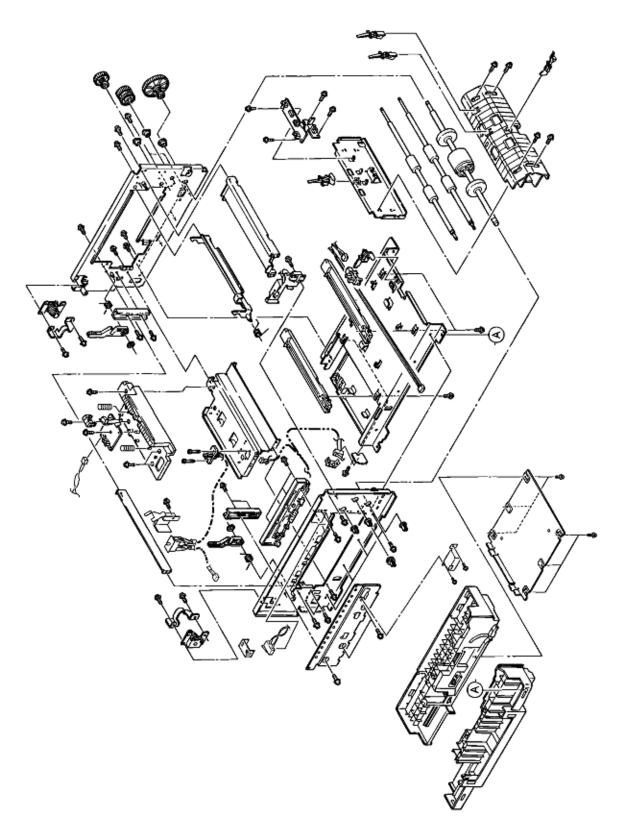


Figure 3-3, Base Assemblies

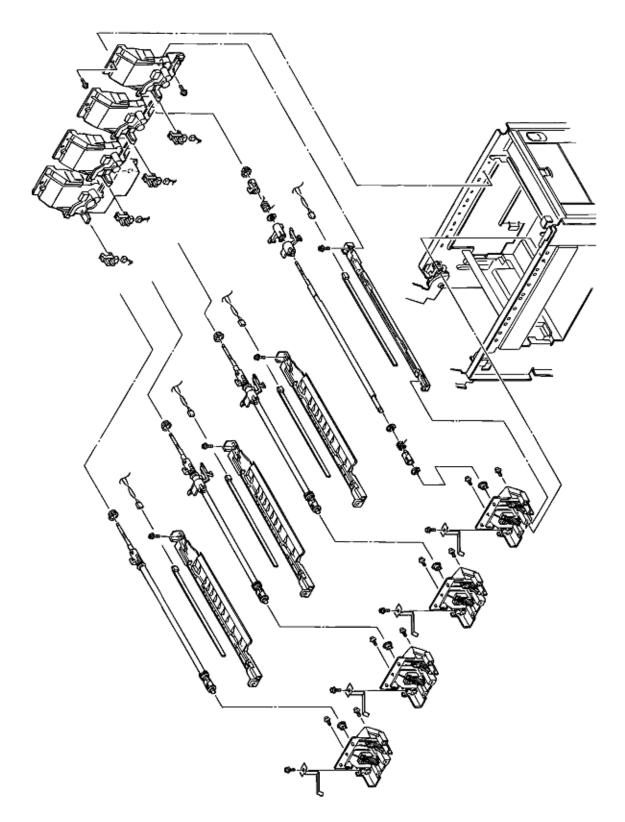


Figure 3-4, Contact Assemblies





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3.3 How to Change Parts

This section explains how to change parts and assemblies appearing in the disassembly diagram below.

- 3.3.1 Cover Assy Rear
- 3.3.2 Motor Fan (80-25)
- 3.3.3 Paper Eject Assy
- 3.3.4 Cover Assy Stacker Guide Eject FD Assy
- 3.3.5 Frame Assy Upper
- 3.3.6 Plate Support Assy
- 3.3.7 Limiter 2Way (L), (R) / Plate Guide (L), (R)
- 3.3.8 Cover
- 3.3.9 PCB Assy: PCE
- 3.3.10 Motor Fan (CU)
- 3.3.11 PXF PCB/PX4 PCB
- 3.3.12 Gear Heat Assy
- 3.3.13 Main Motor (A), (B) Assy
- 3.3.14 Gear One-way (Z30)
- 3.3.15 Motor Assy BT
- 3.3.16 Power Supply Unit, Holder Inlet, Sheet Insulation
- 3.3.17 Sensor Assy Box Toner
- 3.3.18 Square-shaped Connector
- 3.3.19 Hopping Motor
- 3.3.20 Gear One-Way
- 3.3.21 Feeder Unit Front
- 3.3.22 Manual Feed Hopper Assy
- 3.3.23 Guide Paper Input Assy
- 3.3.24 Lever Input Sensor
- 3.3.25 Roller Registration, Roller Assy Hopping
- 3.3.26 Roller Hopping
- 3.3.27 PXU PCB/PXM PCB, Lever Regist Sensor
- 3.3.28 Paper End Lever
- 3.3.29 PCO PCB (Operator Panel)
- 3.3.30 Holder Gear Toner Assy
- 3.3.31 Plate Latch Lever (FD), Spring Latch Lever (FD)
- 3.3.32 Belt Cassette Assy
- 3.3.33 High Voltage Power Supply Unit, Bracket HV
- 3.3.34 Erase Bracket Assy, Eraser Bracket
- 3.3.35 Shaft Link
- 3.3.36 Contact (BL-R) Assy, Contact (CL-R) Assy
- 3.3.37 Contact (BL-L) Assy, Contact (CL-L) Assy

- 3.3.38 Contact SB Assy
- 3.3.39 PXC PCB
- 3.3.40 Heat Unit Assy
- 3.3.41 Oil Roller Assy
- 3.3.42 Lever Lock Heat (L) / (R), Guide Side Heat, Spring Lock
- 3.3.43 PXL PCB
- 3.3.44 Heat Unit Guide Assy
- 3.3.45 Holder LED Assy, LED Head





3.3.1 Cover Assy Rear

Remove the 2 screws (1) then lift the cover assy rear (2) a little bit, then remove the cover assy rear by releasing the two claws.

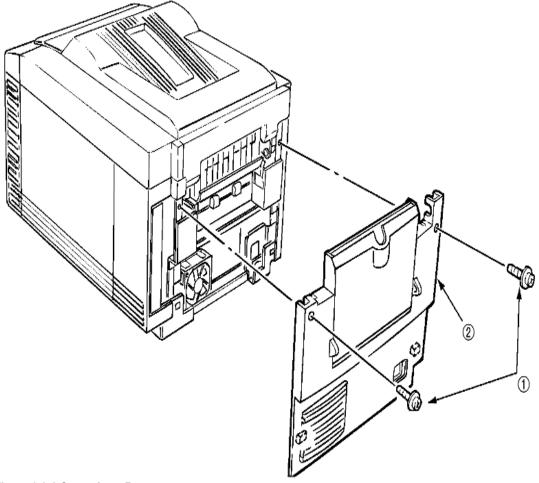


Figure 3.3.1 Cover Assy Rear





3.3.2 Motor-Fan (80-25)

- 1. Remove the cover assy rear (See 3.3.1)
- 2. Remove the two screws (1).
- 3. Detach the fan motor (2) from the guide with its right side lifted then draw the fan motor.
- 4. Detach the cable (3) then remove the fan motor (3).

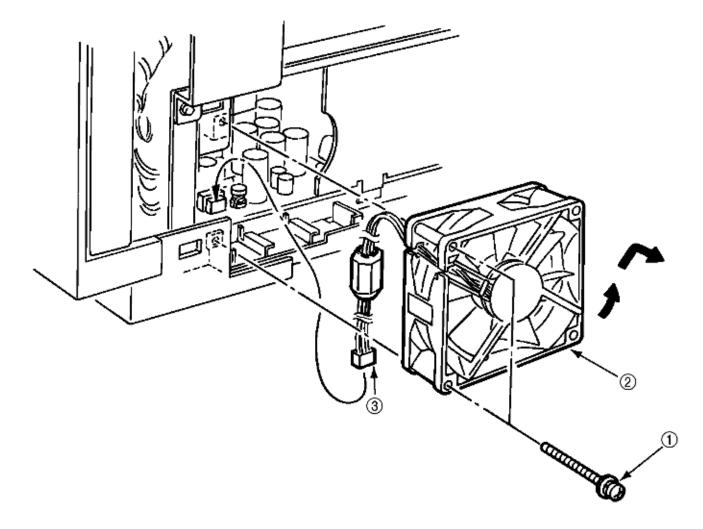


Figure 3.3.2 Fan Motor (80-25)





3.3.3 Paper Eject Assy

The paper eject assy includes the frame: eject assy and the guide: paper eject assy.

- 1. Remove the cover assy rear (See 3.3.1)
- 2. Open the top cover.
- 3. Unscrew 4 screws (1) then remove the frame eject assy (2).
- 4. Remove the guide paper eject assy (3) by releasing the lock of one claw.

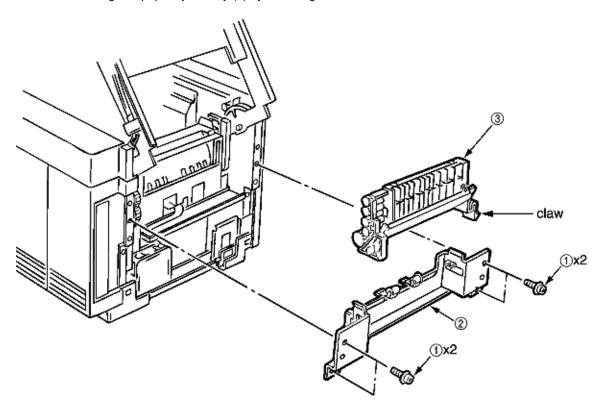


Figure 3.3.3 Paper Eject Assy





3.3.4 Cover Assy Stacker, Guide Eject FD Assy

- 1. Remove the cover assy rear. (See 3.3.1)
- 2. Release the cable from the cable clamp (1) by opening the clamp.
- 3. Unscrew 8 screws (2) then remove the cover assy stacker (3).
- 4. Unscrew 4 screws (4) then remove the guide eject FD assy (5).

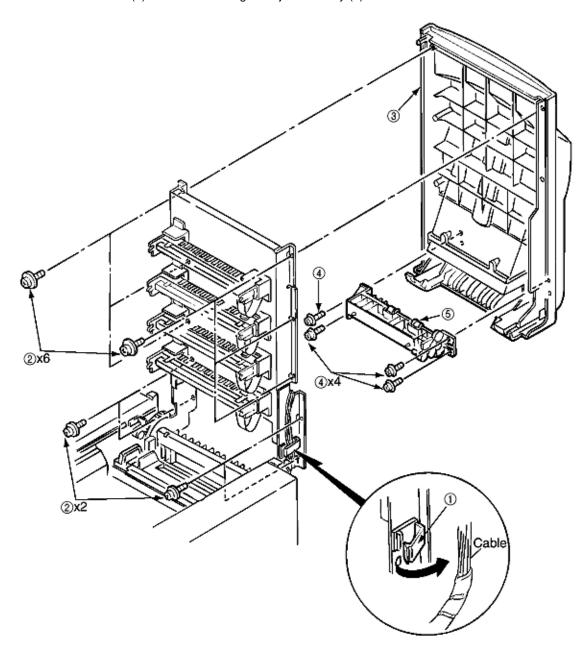


Figure 3.3.4 Cover Assy Stacker, Guide Eject FD Assy





3.3.5 Upper Frame Assy

- 1. Remove the cover assy rear. (See 3.3.1.)
- 2. Remove the cover assy stacker. (See 3.3.4.)
- 3. Remove the holder LED assy. (See 3.3.45)
- 4. Detach the cable from the cable clamp (1) by releasing its lock.
- 5. Remove connections of 4 connector cables (2) and 4 cables (3).
- 6. Unscrew 4 screws (4) then remove the PCB (5).
- 7. Unscrew 2 screw (6) then remove Guide Holder (7) by releasing the clamp of the claw.
- 8. Unscrew 4 screws (8) then remove the Upper Frame Assy (9).

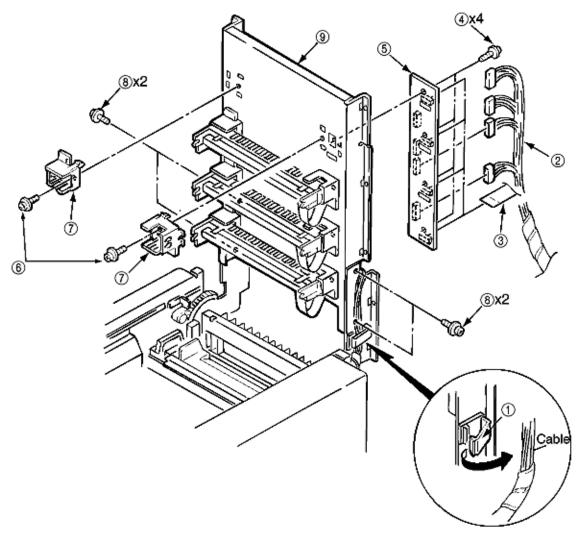


Figure 3.3.5 Upper Frame Assy





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3.3.6 Plate Support Assemblies

The plate support assemblies are provided right and left. The method of those replacements is the same.

- 1. Remove the heat unit assy. (See 3.3.40)
- 2. Remove the cover assy rear. (See 3.3.1)
- 3. Remove the cover assy stacker. (See 3.3.4)
- 4. Remove the frame assy upper. (See 3.3.5)
- 5. Detach the cable from the flat cable clip (1) by releasing the lock.
- 6. Remove the 2 screws (2) then remove the plate support assy (3). Be careful not to lose the spring 4 which is removed with the plate support assy (3).)

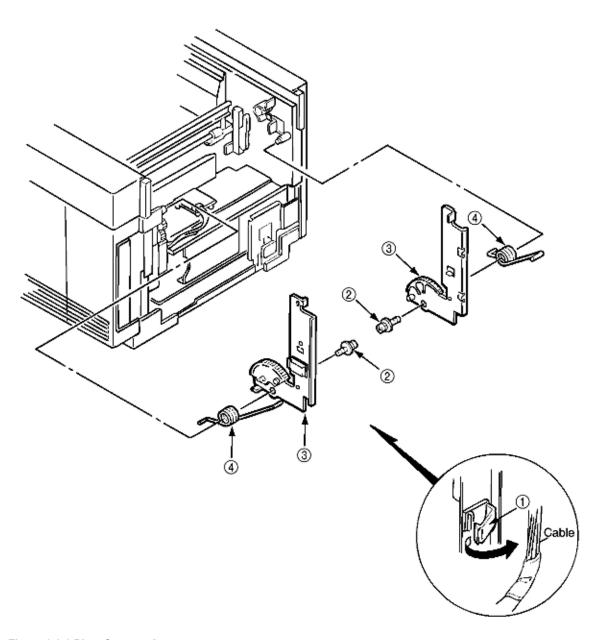


Figure 3.3.6 Plate Support Assy





3.3.7 Limiter 2way (L), (R) / Plate Guide (L), (R)

- 1. Remove the plate support assy (L) and (R). (See 3.3.6)
- 2. Unscrew 2 screws (1) then remove the limiter 2way (L) (2) and the plate guide (L) (3).
- 3. Unscrew 2 screws (4) then remove limiter 2way (R) (5) and the plate guide (R) (6).

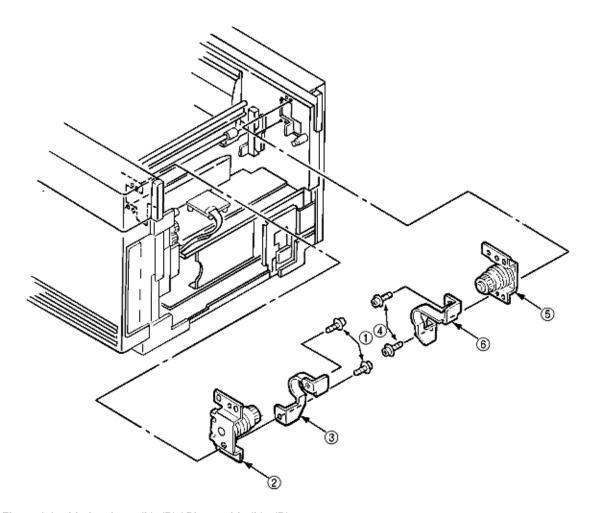


Figure 3.3.7 Limiter 2way (L), (R) / Plate guide (L), (R)





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3.3.8 Cover

Describes the method of removing the cover assy side (L)/(R), cover assy OP panel, cover front (L)/(R) and the cover rear (L).

- 1. Remove the cover assy rear. (See 3.3.1)
- 2. Remove the cover assy stacker. (See 3.3.4)
- 3. Remove the 2 screws (1) then remove the frame side (L) (2).
- 4. Remove the 2 screws (3) then release the lock of the claw with the cover assy side (R) (4) lifted a little bit, then remove the cover assy side (R).
- 5. Detach the operator panel cable (5) from the PCM PCB.
- 6. Open the FDR unit front in the arrow direction.
- 7. Remove the 2 screws (6) then remove the cover assy OP panel (7).
- 8. Remove the 2 screws (8), with the cover front (R) (9) pushed up, then release the lock of the claw, then remove the cover front (R).
- 9. Remove the 2 screws (10) then remove the cover front (L) (11).
- 10. Remove the 2 screws (12) then remove the cover rear (L) (13).
- 11. Pull off the film (15) glued on the cassette guide.
- 12. Release the engagement with the guide by lifting the cover assy side (L) (14), then remove the cover assy side (L).

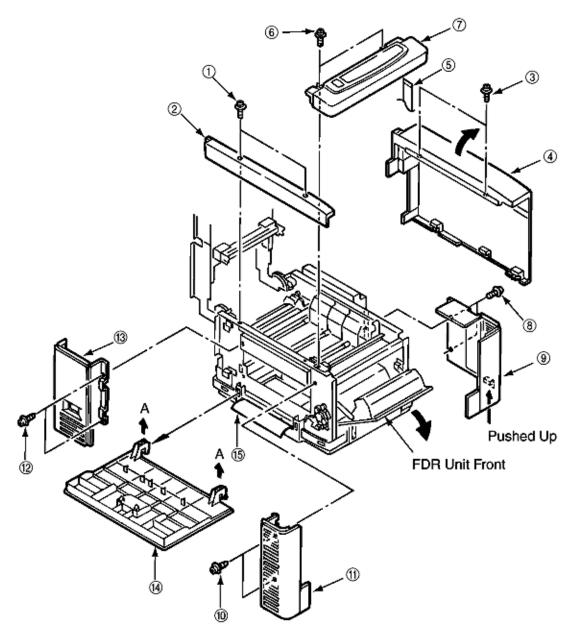


Figure 3.3.8 Cover





3.3.9 PCE PCB Assy

- 1. Open the top cover.
- 2. Remove the 2 screws (1) and release the lock of the claw by lifting the cover assy side (R) (2) a little bit, then remove the cover assy side (R).
- 3. Remove the 2 screws (8) to remove the plate shield (CU) (9).
- 4. Remove the 3 screws (3) to remove the plate sealed (4).
- 5. Detach the operator panel cable (5) from the PCE PCB. PCE PCB requires ten (10) screws for removal.
- 6. Remove the 7 screws (6) to remove the PCE PCB (7).

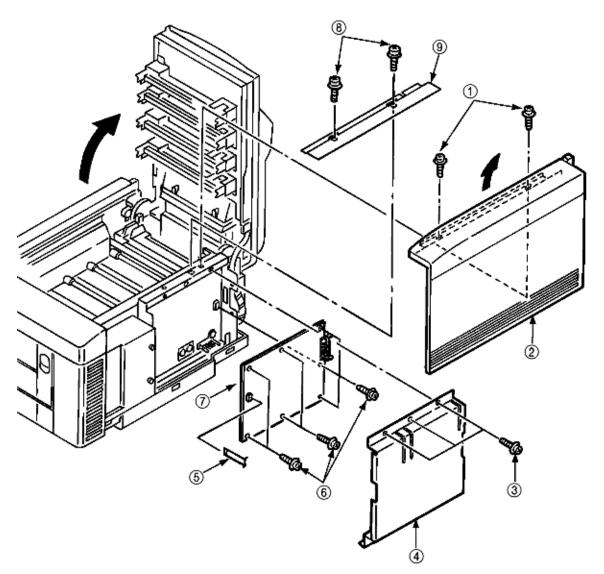


Figure 3.3.9 PCB Assy: PCM





3.3.10 Motor Fan (CU)

- 1. Open the top cover.
- 2. Remove the cover assy side (R), frame side (L), cover assy OP panel and the cover front (R). (See 3.3.8)
- 3. Unplug the cable (1) and unscrew 2 screws (2), 2 collars (4) and then remove the motor fan (CU) (3).

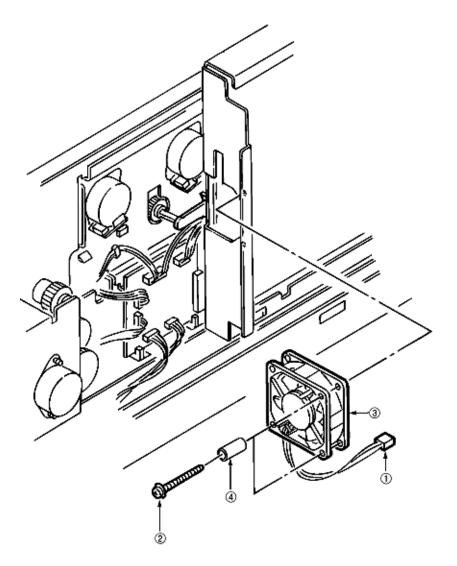


Figure 3.3.10 Motor Fan





3.3.11 PXF PCB / PX4 PCB

Since the PXF PCB and PX4 PCB are connected with each other via the connector, remove them at the same time.

- 1. Remove the PCB assy: PCM. (See 3.3.9)
- 2. Unscrew 5 screws (1) then remove the cover CU (2).
- 3. Unplug all the cables (5) connected to the PXF PCB (3) and PX4 PCB (4).
- 4. Unscrew 5 screws (6) then remove the PXF PCB (3) and PX4 PCB (4) at the same time.

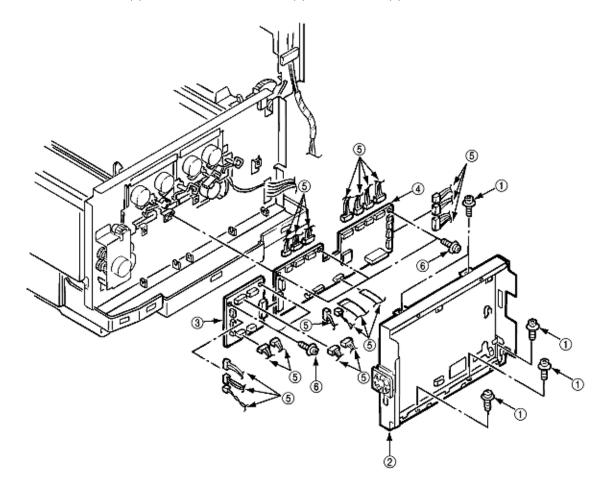


Figure 3.3.11 PXF PCB / PX4 PCB





3.3.12 Gear Heat Assy

- 1. Remove the cover assy side (R), cover assy OP panel, cover front (R) and the cover rear (L). (See 3.3.8)
- Remove the cover CU then unplug all the cables connected to the PX4 PCB and unscrew 3 screws. (See 3.3.11)
- 3. Unplug all the cables connected to the PXF PCB then remove the PX4 PCB. (See 3.3.11) (Be careful not to damage the connector when unplugging cables connected to the PXF PCB.)
- 4. Remove the heat unit assy. (See 3.3.40)
- 5. Remove the guide paper eject assy. (See 3.3.3)
- 6. Remove the motor fan (80-25). (See 3.3.2)
- 7. Remove the 5 screws (1) and detach the cable (2) then remove the guide heat assy (3).
- 8. Remove the 2 screws (4) then remove the motor (ID) (5).

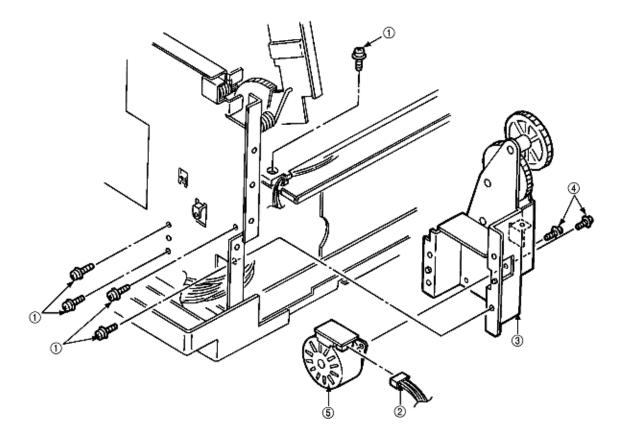


Figure 3.3.12 Gear Heat Assy





3.3.13 Main Motor (A), (B) Assy

- 1. Remove the PXF PCB and PX4 PCB. (See 3.3.11)
- 2. Remove the 4 screws (8) and remove 4 plate-Earth (9) and 4 lever Up/Dn 2 (1).
- 3. Detach the all the cables (2) connected and unscrew 4 screws (3), then remove the main motor (A) assy (4).
- 4. Detach the all the cables (5) connected and unscrew 3 screws (6), then remove the main motor (B) assy (7).

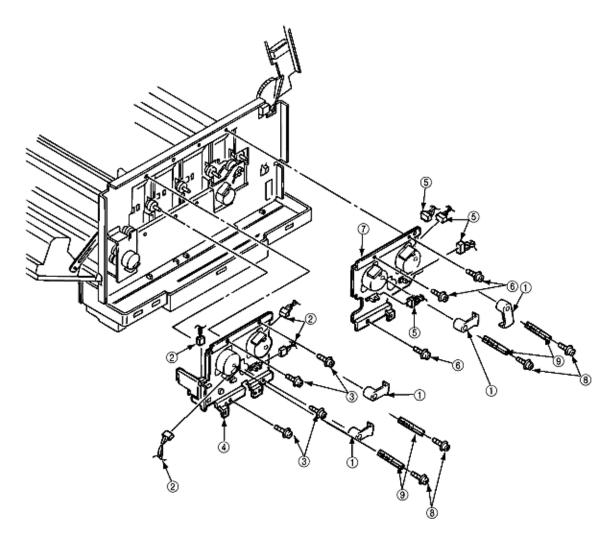


Figure 3.3.13 Main Motor (A), (B) Assy





3.3.14 Gear One-way (Z30)

Four gear one-ways (Z30) are provided but the method of those replacements is the same. Do not disassemble the gear one-ways (Z30) because they are assemblies which require adjustment.

- 1. Remove the PCB assy: PCM. (See 3.3.9)
- 2. Remove the cover CU. (See 3.3.11)
- 3. Remove the 4 Plate-Earth and 4 lever Up/Dn 2. (See 3.3.13)
- 4. Release the lock with the shaft by spreading the claw, then remove the gear one-way (Z30) (1).

[Notice for mounting]

Mount the gear one-way (Z30) by fitting it with the shaft link turned in the arrow direction.

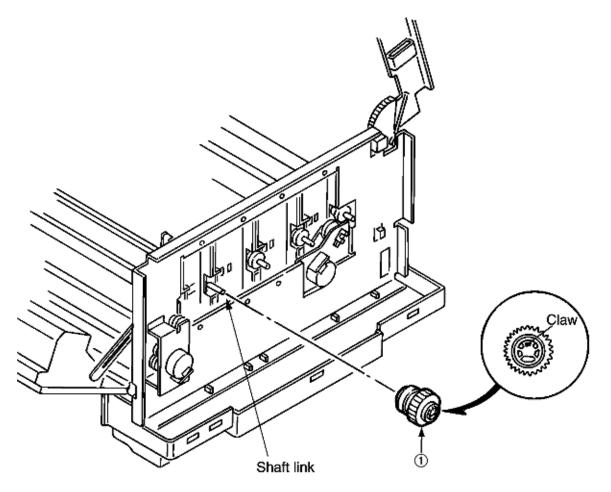


Figure 3.3.14 Gear One-Way (Z30)





3.3.15 Motor Assy Belt

- 1. Remove the main motor (B) assy. See (3.3.13)
- 2. Unplug 2 cables (1) connected and unscrew 2 screws (2), then remove the motor assy belt (3).

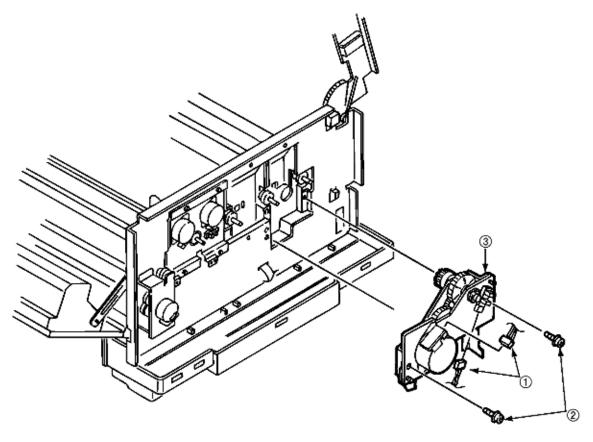


Figure 3.3.15 Motor Assy Belt





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3.3.16 Power Supply Unit, Holder Inlet, Sheet Insulation

- 1. Remove the motor-fan (80-25). (See 3.3.2)
- 2. Remove the frame side (L), the cover assy side (R) and the cover rear (L). (See 3.3.8)
- 3. Unplug the cable (1).
- 4. Remove the holder inlet (3) by unscrewing 2 screws (2), then remove the power switch (4) and unplug the AC socket (5).
- 5. Draw the power supply unit (7) by unscrewing 2 screws (6), then unplug the cable (8).

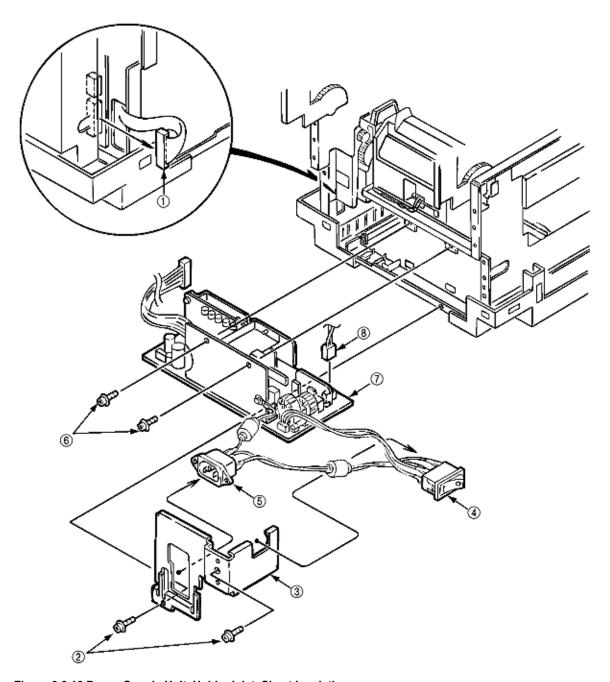


Figure 3.3.16 Power Supply Unit, Holder Inlet, Sheet Insulation





3.3.17 Sensor Assy Box Toner

- 1. Remove the power supper unit. (See 3.3.16)
- 2. Unscrew the screw (1) then remove the sensor assy box toner (2) together with the bracket (3).
- 3. Unscrew the screw (4) then remove the sensor assy box toner (2).

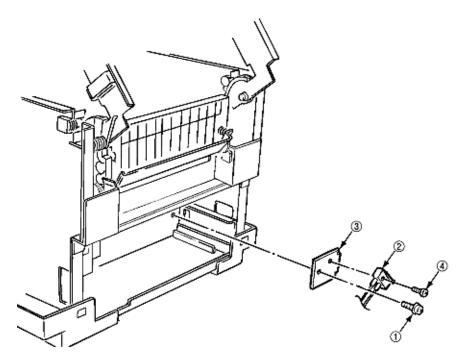


Figure 3.3.17 Sensor Assy Box Toner





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3.3.18 Square-shaped Connector

- 1. Remove the power supply unit. (See 3.3.16) (Do not remove the power switch and AC socket from the holder inlet.)
- 2. Unplug the cable (1).
- 3. Remove cable (2), screw (5) and bracket (6) and cable (7) in order and then take off SW from bracket (6) to pull off square-shaped connector (4).

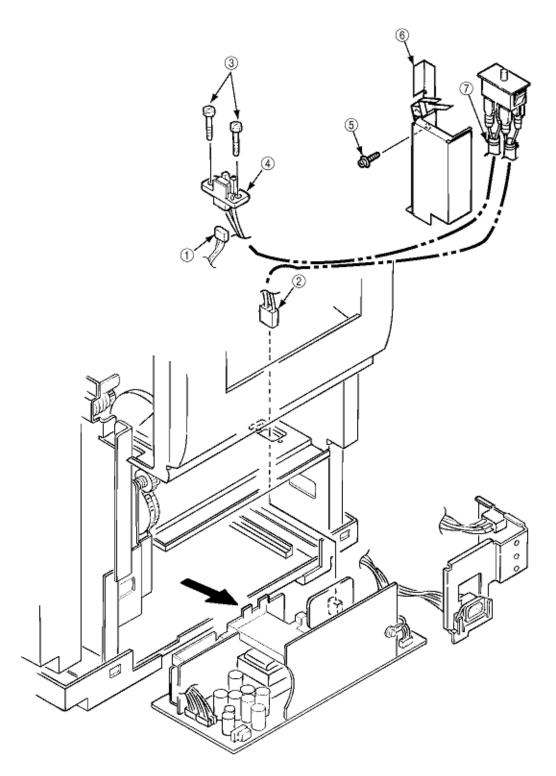


Figure 3.3.18 Square-shaped Connector



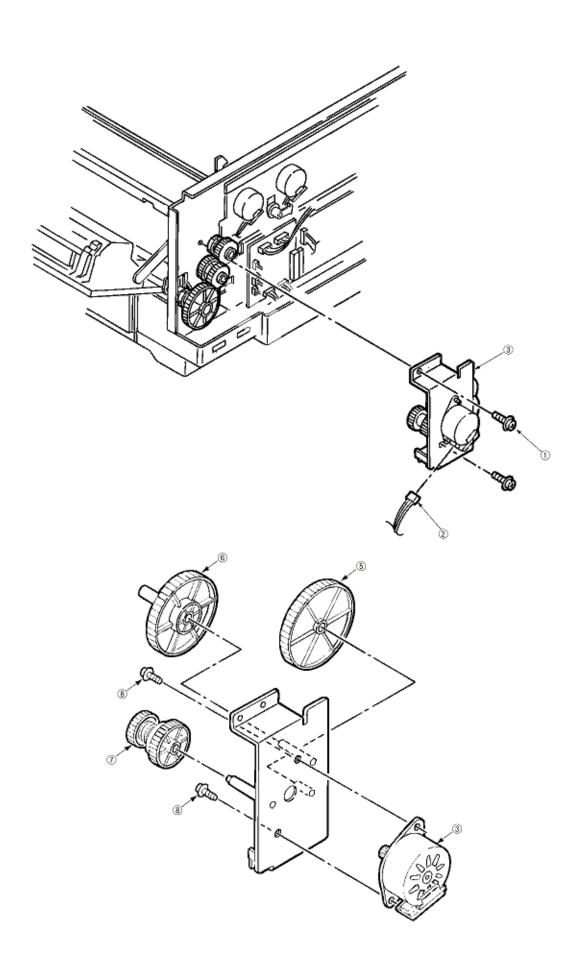




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3.3.19 Motor - Pulse (ID)

- 1. Remove the cover assy side (R), cover assy OP panel and the cover front (R). (See 3.3.8)
- 2. Unscrew 2 screws (1) and unplug the cable (2), then remove the bracket hopping motor (3). (Be careful not to lose the gears (5), (6) and (7) which slip off at this time.)
- 3. Unscrew 2 screws (8) then remove the hopping motor (3).







3.3.20 One-way Gears

- 1. Remove the bracket hopping motor. (See 3.3.19).
- 2. Remove the spacer (4) first and release the locks with the shaft by spreading the claws of the gear one-way (1), (2) and (3), then remove the gear one-ways.

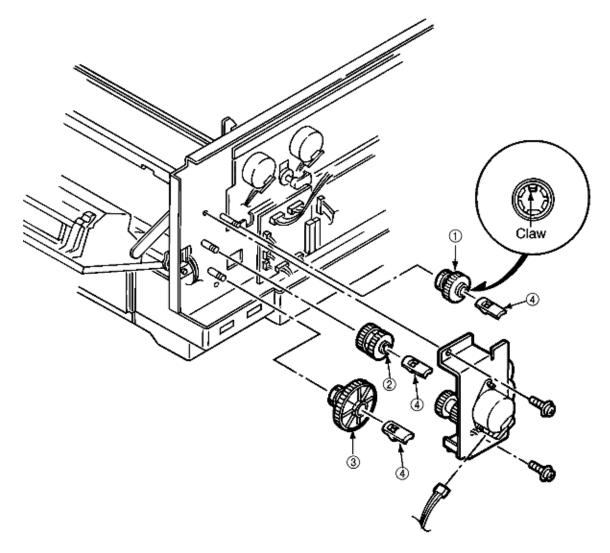


Figure 3.3.20 Gear One-way





3.3.21 Feeder Unit Front

- 1. Remove the cover assy side (R), cover assy OP panel, cover front (R) and the cover front (L). (See 3.3.8.)
- 2. Remove the cover CU. (See 3.3.11)
- 3. Unscrw the screw (8) and remove the cable (9).
- 4. Unplug the cable (1) and unscrew the screw (2), then remove the bracket FF shaft (3).
- 5. Remove 2 E-rings (4) then remove the feeder unit front (5).
- 6. Unscrew each 2 screws (6) then remove 2 bracket FF links (7).

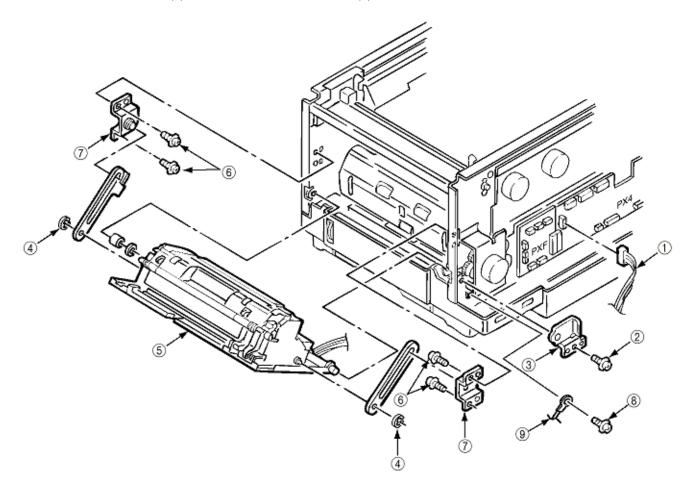


Figure 3.3.21 Feeder Unit Front





3.3.22 Manual Feed Hopper Assy

- 1. Open the manual feed hopper assy.
- 2. Release the engagement between the holder and the link then remove the manual feed hopper assy. (Be careful not to damage the holder.)

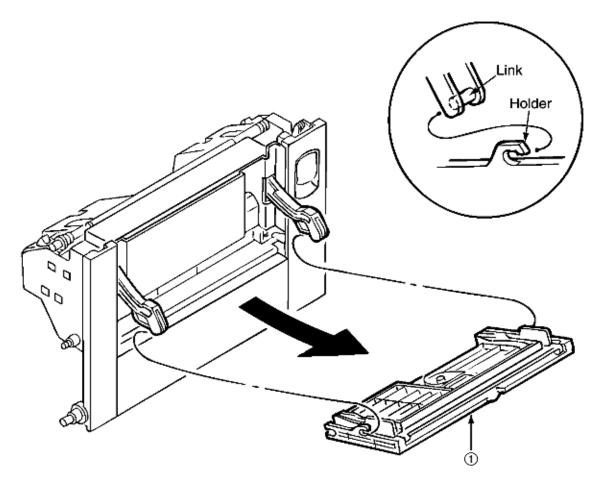


Figure 3.3.22 Manual Feed Hopper Assy





3.3.23 Guide Paper Input Assy

- 1. Remove the cover assy OP panel, cover front (R) ad the cover front (L). (See 3.3.8.)
- 2. Remove the feeder unit front. (See 3.3.21)
- 3. Unscrew 4 screws (1) then draw out the guide paper input assy (2) from the left side by rotating its upper part. (Be careful not to damage the lever sensor resist).

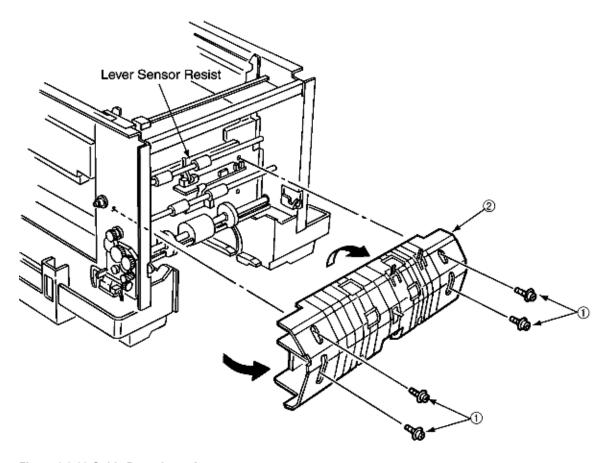


Figure 3.3.23 Guide Paper Input Assy







3.3.24 Two Lever Input Sensors, Lever 2nd Feed Sensor

- 1. Remove the guide paper input assy. (See 3.3.23.)
- 2. Release the engagement with the guide by pressing the lever 2 input sensors (2) in the arrow direction, then remove them.
- 3. Release the engagement with the guide by pressing the lever 2nd feed sensor (2) in the arrow direction, then remove the sensor.

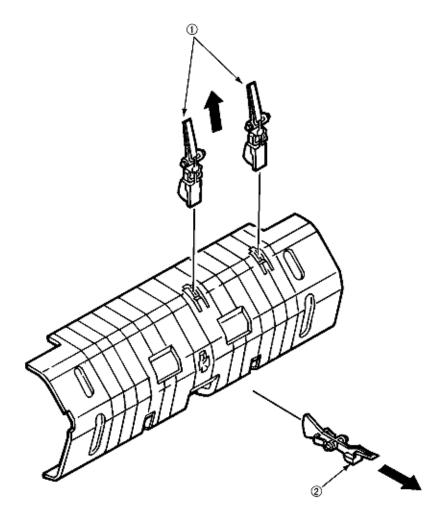


Figure 3.3.24 Two Lever Input Sensors, Lever 2nd Feed Sensor





3.3.25 Roller Registration, Roller Assy Hopping

- 1. Remove the guide paper input assy. (See 3.3.23.)
- 2. Remove the bracket hopping motor. (See 3.3.19)
- 3. Remove the gear one-way. (See 3.3.20)
- 4. Remove the holder gear toner assy. (See 3.3.30)

[Removal of the roller registration]

5. Remove the gear (1) and 2 bushes (2) and 2 bearings (3), then 2 roller registrations (4).

[Removal of the roller assy hopping]

- 6. Remove the bush (5) and the bearing (6).
- 7. Remove E-rings (9) of the sub-roller hopping at both sides of hopping roller and then release the lock of the roller hopping (7) with the shaft (8) by spreading the claw, then remove the roller hopping from the left side by the sliding shaft (8) in the arrow direction. (Be careful not to lose the knock-pin for fastening the roller hopping (7), which slisp off together.)

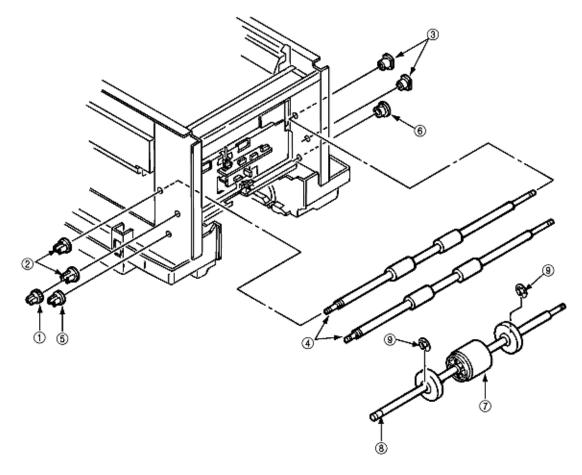


Figure 3.3.25 Roller Registration, Roller Assy Hopping





3.3.26 Hopping Roller Assy

- 1. Remove the roller assy hopping. (See 3.3.25) and remove the 2 sub-roller hopping guide (3). (Be careful not to lose the knock-pin which clips off together when removing the roller assy hopping.
- 2. Detach the roller hopping (2) from the shaft (1).

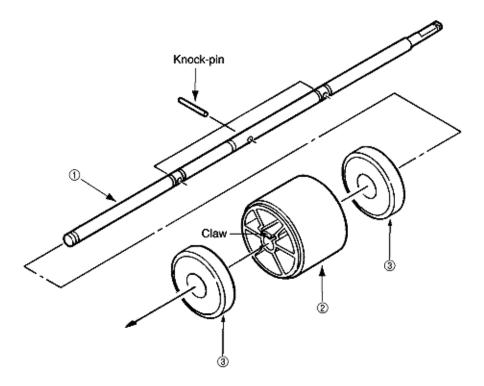


Figure 3.3.26 Hopping Roller Assy





3.3.27 PXU PCB/PXM PCB, Lever Resist Sensor

Since the PXU PCB and PXM PCB are connected with each other via the cable, remove them at the same time.

- 1. Remove the guide paper input assy. (See 3.3.23.)
- 2. Unscrew 4 screws (1) and unplug the cable (2), then remove the PXU PCB (3) and PXM PCB (4) at the same time.
- 3. Remove the lever resist sensor (5) by releasing the engagement with the guide.

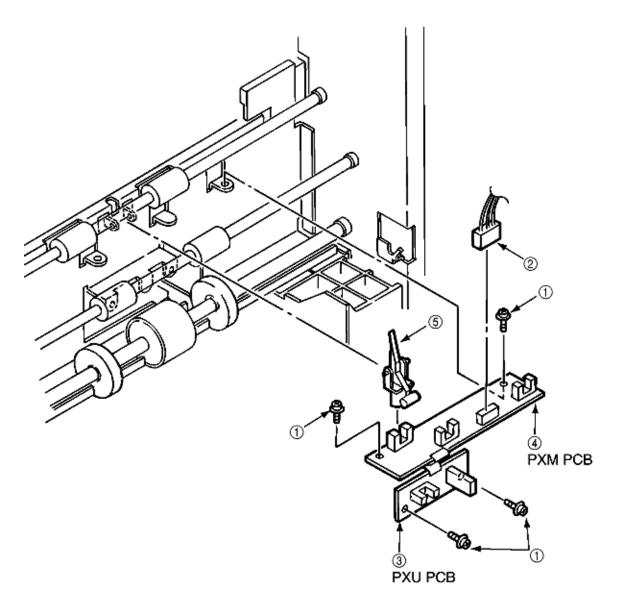


Figure 3.3.27 PXU PCB/PXM PCB, Lever Resist Sensor





3.3.28 Paper End Lever

- 1. Remove the guide paper input assy. (See 3.3.23.)
- 2. Remove the paper end lever (1) by releasing the engagement with the guide.

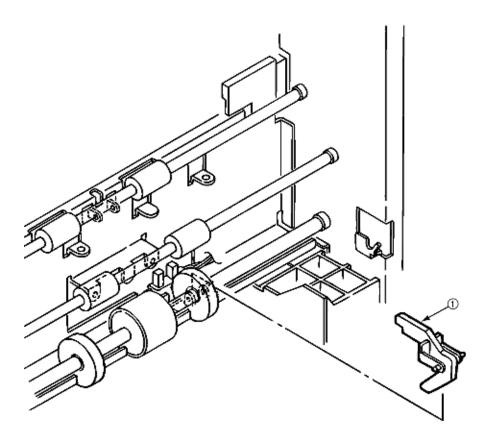


Figure 3.3.28 Paper End Lever





3.3.29 PCO PCB (Operator Panel)

- 1. Remove the cover assy side (R), and the cover assy OP panel. (See 3.3.8.)
- 2. Unscrew 4 screws (1) and unplug the operator panel cable (2).
- 3. Remove the PCO PCB (3) by releasing 6 claws. (Be careful not to drop the LCD (Liquid Crystal Display) (4) and (5) which are detached together).

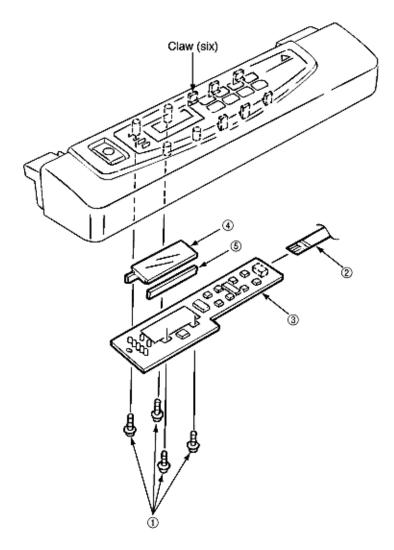


Figure 3.3.29 PCO PCB (Operator Panel)





3.3.30 Holder Gear Toner Assy

- 1. Remove the cover assy side (R), cover assy OP panel, cover front (R) and the cover front (L). (See 3.3.8.)
- 2. Unplug the cable (1) and unscrew the screw (2), then remove the holder gear toner assy (3).

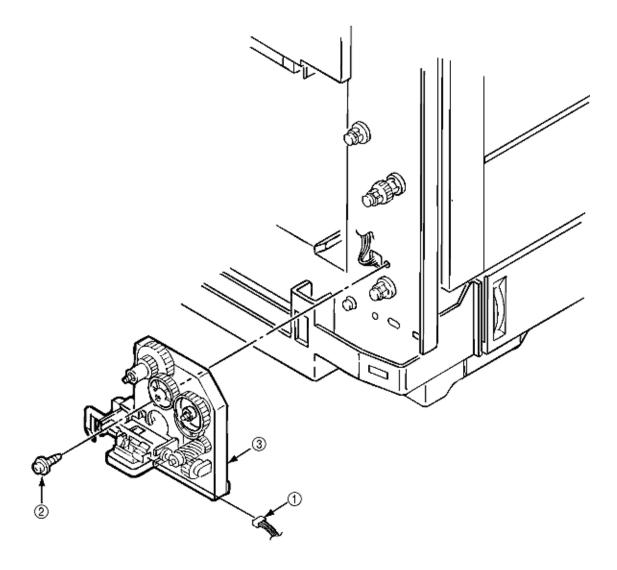


Figure 3.3.30 Holder Gear Toner Assy





3.3.31 Plate Latch Lever (FD), Spring Latch Lever (FD)

- 1. Remove the cover assy side (R), cover assy OP panel, cover front (R) and the cover front (L). (See 3.3.8.)
- 2. Open the cover CU. (See 3.3.11)
- 3. Unplug the cable (1).
- 4. Unscrew 4 screws (4) then remove the stay upper (front) (5).
- 5. Unscrew 2 screws (2) then remove the bracket SW (side) (5).
- 6. Remove the plate latch lever (FD) (6) and spring latch lever (FD) (7) with the side frames spread. (Be careful not to spread the frames too much).

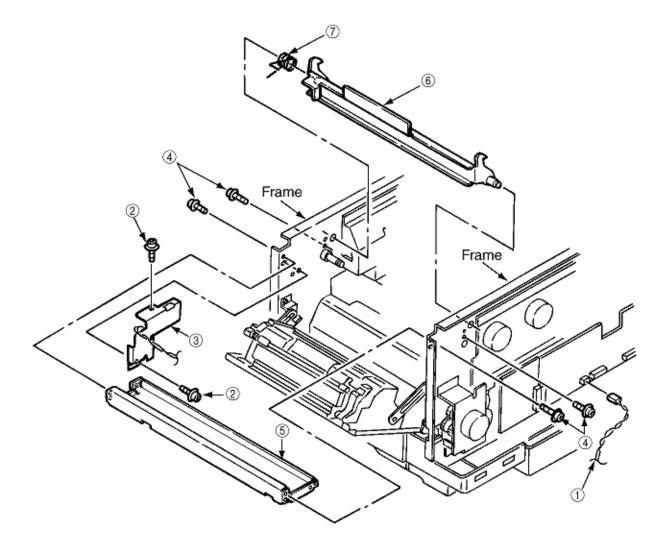


Figure 3.3.31 Plate Latch Lever (FD), Spring Latch Lever (FD)





3.3.32 Transfer Belt

- 1. Open the Top cover.
- 2. Release the lock by drawing the cover knob then open the cover assy side (L).
- 3. Turn the waste toner box (box toner assy) (1) to the left by pressing it down, then remove it.
- 4. Draw out the belt cassette assy (2) by lifting it a little bit with its handle.

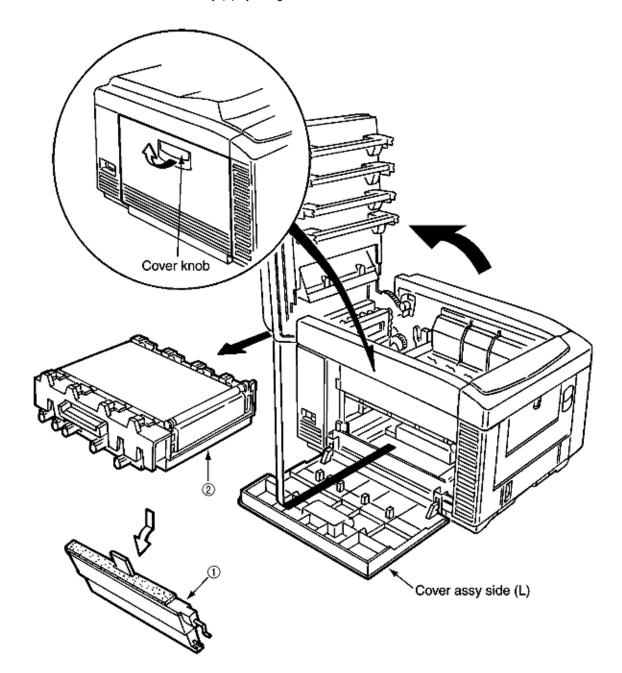


Figure 3.3.32 Transfer Belt



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3.3.33 High Voltage Power Supply Unit, Bracket HV (BT) Assy

- 1. Remove the belt cassette assy. (See 3.3.32)
- 2. Unscrew 2 screws (1) with the stacker cover opened, then remove the plate HV (2).
- 3. Unplug the cable (3) and 7 codes (4).
- 4. Unscrew 2 screws (5) then remove the high voltage power supply unit (6).
- 5. Remove the bracket HV (BT) Assy (7).

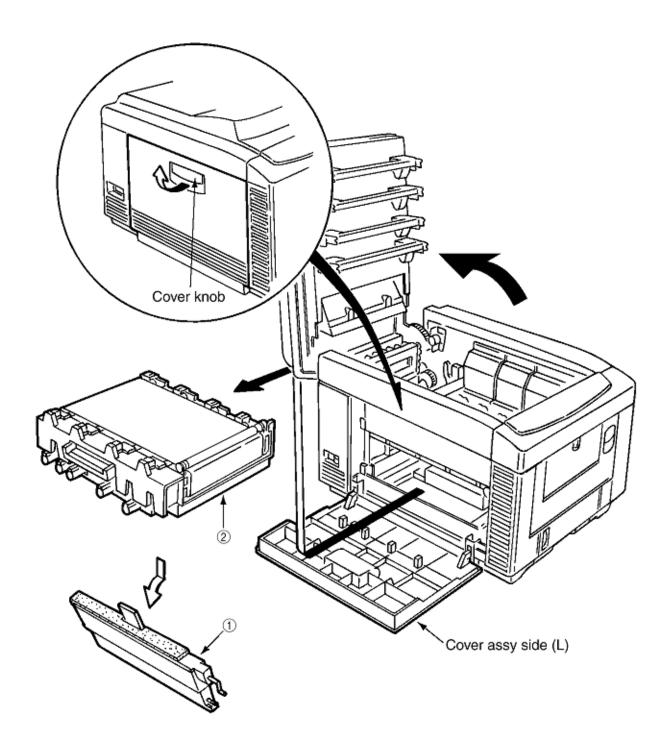


Figure 3.3.33 High Voltage Power Supply Unit, Bracket HV (BT) Assy



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3.3.34 Eraser Bracket Assy, Eraser Bracket (KCM) Assy

- 1. Remove the belt cassette assy. (See 3.3.32).
- 2. Open the stacker cover.
- 3. Remove four screws (5) and then remove the Plate Blind (6).

[Removing the eraser bracket assy]

- 4. Remove the screw (1) and the connector (2).
- 5. Release the screw (7) and then remove the eraser bracket assy (3).

[Removing the eraser bracket (KCM) assy]

- 6. Remove the screw (1) and the connector (2).
- 7. Release the lock of the claw then release the engagement with the bracket sensor T (KCM). (See 3.3.35).
- 8. Release the screw (7) and then remove the eraser bracket (KCM) assy (4) and unplug the cable (2) then remove the eraser bracket (KCM) assy.

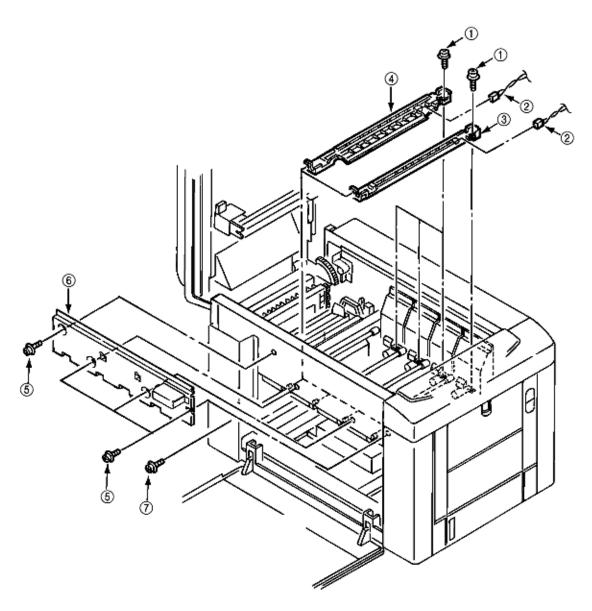


Figure 3.3.34 Eraser Bracket Assy, Eraser Bracket (KCM) Assy





3.3.35 Shaft Link

- 1. Remove the eraser bracket assy. (See 3.3.34)
- 2. Remove the gear one-way (Z30). (See 3.3.14.)
- 3. Remove the E-ring (3) by sliding the sensor assy T (KCM) (1) and bracket sensor T (KCM) (2) together in the arrow (A) direction.
- 4. Release the engagement between the lever Up/Dn and boss A of the lever link (R) (5) by sliding the spring support (R) (4), lever link (R) (5) and the bearing (6) together in the arrow (B) direction. (Keep on sliding until the lever link (R) (5) reaches the end of D-cut part of the shaft link (7).)
- 5. Draw out the entire shaft link (7) by pressing it in the arrow (C) direction and turning its left side under the contact (BL L) assy.
- 6. Detach the sensor assy T (KCM) (1), bracket sensor T (KCM) (2), spring support (R) (4), lever link (R) (5) and the bearing (6) from the shaft link (7).
- 7. Remove 2 E-rings (8) then remove the spring support (L) (9) and lever link (L) (10).

[Notice for mounting]

- Engagement between the lever Up/Dn and boss A of the lever link (R) (5): Mount the spring support (L (9) and lever link (L (10) in the predetermined positions, then clamp the boss A of lever link (R) (5) with the lever Up/Dn by adding rotating power on the spring support (L) (9) by rotating the shaft link (7).
- Mounting of the spring support (R) (4): Clamp the spring support (R) (4) at the predetermined positions in the lever link (R) (5) and the contact BKT (R).

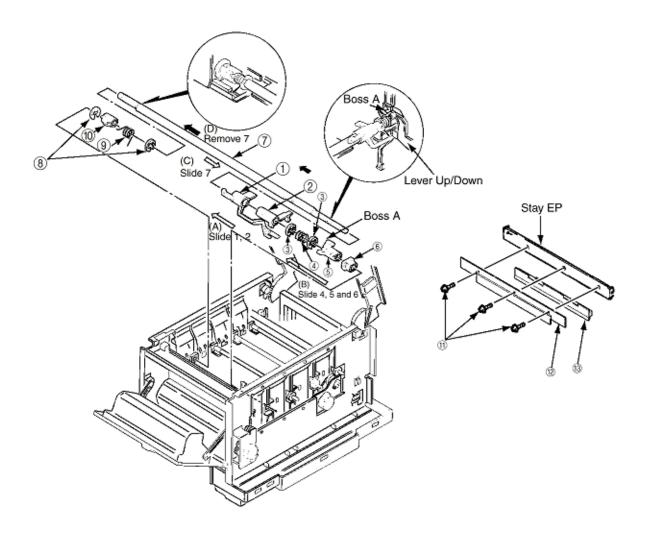


Figure 3.3.35 Shaft Link





3.3.36 Contact Bracket (BL-R) Assy, Contact Bracket (CL-R) Assy

- 1. Remove the gear one-way (Z30). (See 3.3.14)
- 2. Remove the motor assy BT. (See 3.3.15)
- 3. Remove the high voltage power supply unit. (See 3.3.33)
- 4. Remove the shaft link. (See 3.3.35)

[Removal of the contact (BL-R) Assy]

5. Unscrew 2 screws (1) and unplug the cable (2), then rmeove the contact (BL-R) assy (3).

[Removal of the contact (CL-R) Assy]

6. Unscrew 2 screws (4) then remove the contact (CL-R) Assy (5).

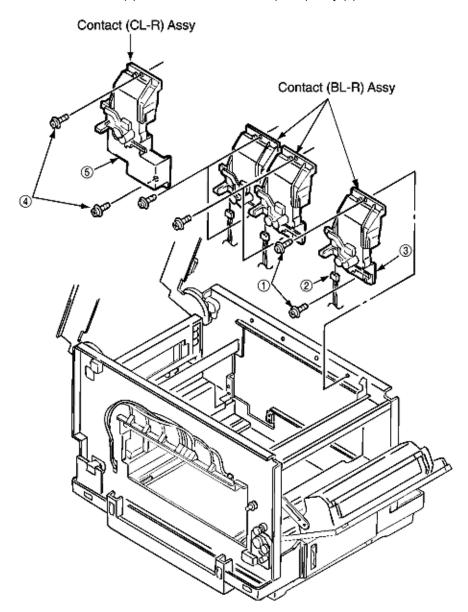


Figure 3.3.36 Contact Bracket (BL-R) Assy, Contact Bracket (CL-R) Assy





3.3.37 Contact (BL-L) Assy, Contact (CL-L) Assy

1. Remove the shaft link. (See 3.3.35)

[Removal of the contact (BL-L) assy]

2. Unscrew 2 screws (1) then remove the contact (BL-L) Assy (2).

[Removal of the contact (CL-L) assy]

3. Unscrew 2 screws (3) then remove the contact (CL-L) assy (4).

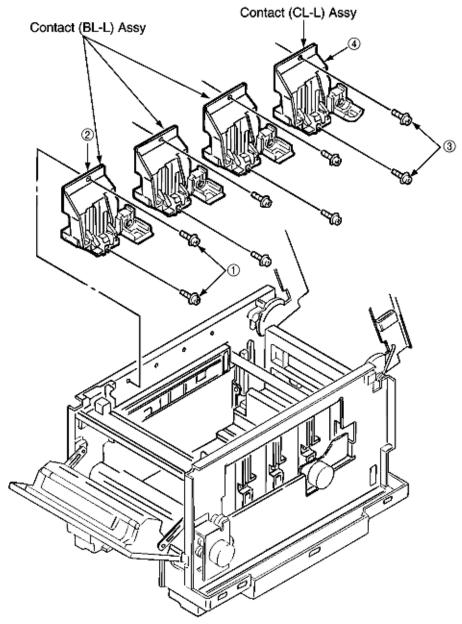


Figure 3.3.37 Contact (BL-L) Assy, Contact (CL-L) Assy





3.3.38 Contact SB Assy

- 1. Remove the contact (BL-L) assy and contact (CL-L) assy. (See 3.3.37)
- 2. Unscrew 3 screws (1) then remove the plate blind (2).
- 3. Unplug 7 codes (3).
- 4. Unscrew 3 screws (4) then remove the contact SB assy (5).

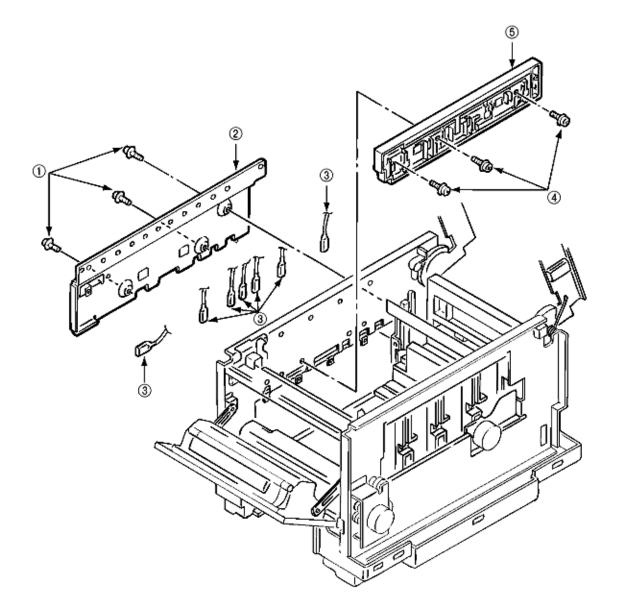


Figure 3.3.38 Contact SB Assy





3.3.39 PXC PCB

- 1. Remove the contact (BL-R) assy and contact (CL-R) assy. (See 3.3.36)
- 2. Remove the contact (BL-L) assy and contact (CL-L) assy. (See 3.3.37)
- 3. Remove the hopping motor. (See 3.3.19)
- 4. Remove the motor assy BT. (See 3.3.15)
- 5. Remove the gear heat assy. (See 3.3.12)
- 6. Remove the roller assy hopping. (See 3.3.25)
- 7. Remove the holder gear toner assy. (See 3.3.30)
- 8. Remove the high voltage power supply unit. (See 3.3.33)
- 9. Unplug the inlet AC. (See 3.3.16)
- 10. Unscrew 9 screws (1) then remove the guide cassettes (L) (2) and (R) (3) together.
- 11. Unscrew the screw (4) then remove the switch (5).
- 12. Unscrew the screw (6) then remove the PXC PCB (7).

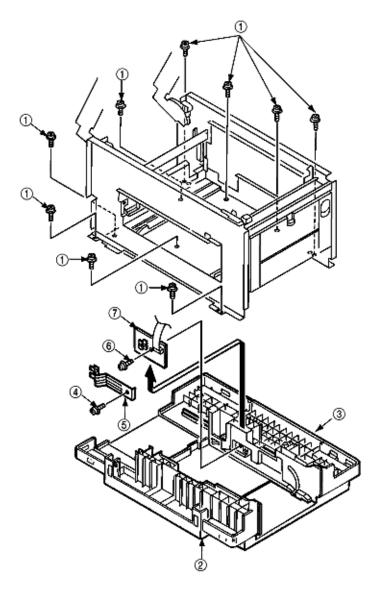


Figure 3.3.39 PXC PCB





3.3.40 Heat Unit Assy (Fuser unit and oil roller)

- 1. Open the stacker cover.
- 2. Release the lock by turning down the lever lock heat guides (blue) on both sides, then lift the fuser unit assy (1) and remove it.

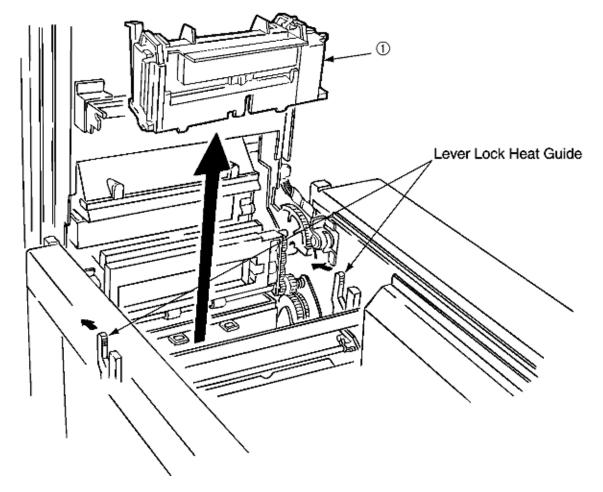


Figure 3.3.40 Heat Unit Assy





3.3.41 Oil Roller Kit

- 1. Remove the heat unit assy. (See 3.3.40)
- 2. Release the lock by turning down the lever in the arrow (A) direction, then slide the oil roller assy (1) with its right side lifted and remove it.

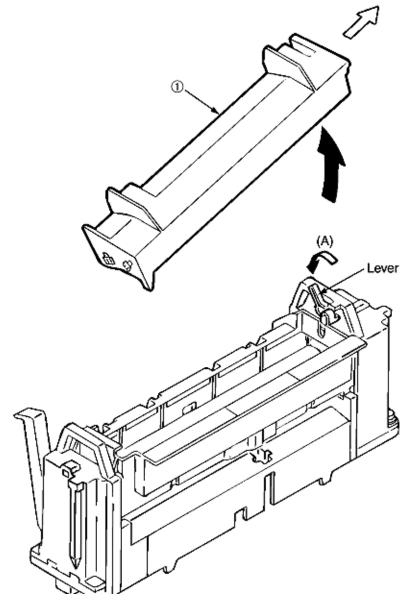


Figure 3.3.41 Oil Roller Kit





3.3.42 Lever Lock Heat (L)/(R), Guide Side Heat, Spring Lock

Removing methods for right side and left side of each part are the same. Here describes the method for right side.

- 1. Remove the heat unit assy. (See 3.3.40)
- 2. Unscrew 2 screws (1) then remove the guide side heat (2).
- 3. Remove the E-ring (3) then lever lock heat (R) (4). (Be careful not to lose the spring lock 5 which slips off together.)

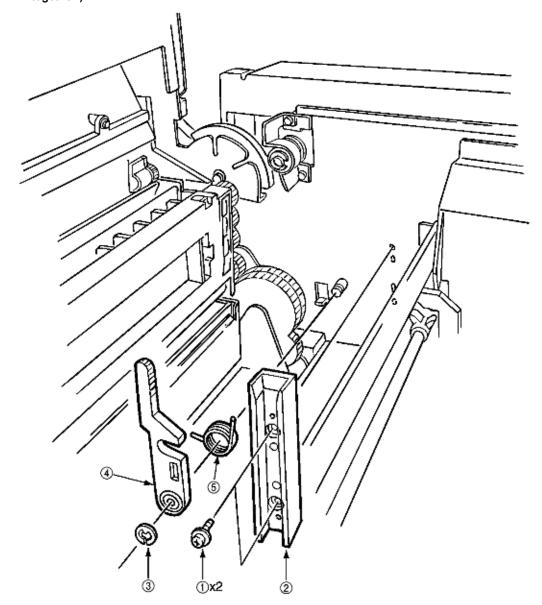


Figure 3.3.42 Lever Lock Heat (L)/(R), Guide Side Heat, Spring Lock





3.3.43 PXL PCB

- 1. Remove the paper eject assy. (See 3.3.3)
- 2. Remove the belt cassette assy. (See 3.3.32)
- 3. Remove the heat unit assy. (See 3.3.40)
- 4. Unplug the cable (1) and the screw (2), then remove the PXL PCB (3).
- 5. Release the lock of the claw then remove the sensor cover (4).

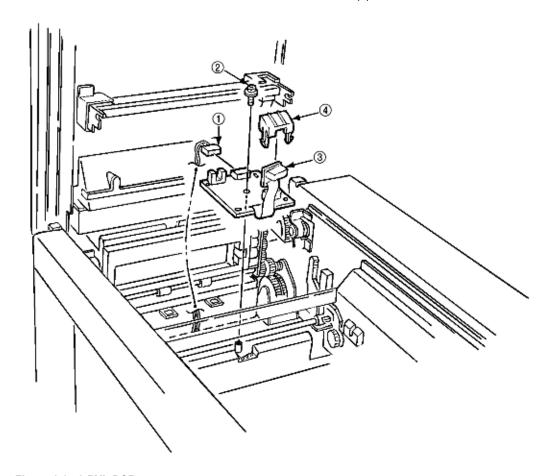


Figure 3.3.43 PXL PCB



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3.3.44 Heat Unit Guide Assy

- 1. Remove the cover assy rear. (See 3.3.1)
- 2. Remove the paper eject assy. (See 3.3.3)
- 3. Remove the gear heat assy. (See 3.3.12)
- 4. Remove the belt cassette assy. (See 3.3.32)
- 5. Open the stacker cover and remove the heat unit assy. (See 3.3.40)
- 6. Unscrew 4 screws (1) then remove the heat unit guide assy (2).

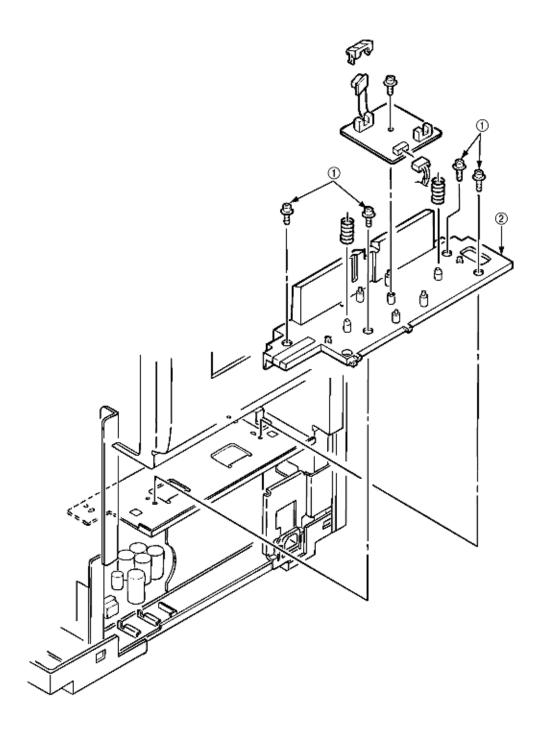


Figure 3.3.44 Heat Unit Guide Assy





3.3.45 Holder LED Assy, LED Head

- 1. Unplug the cable (1).
- 2. Remove the LED head (3) by spreading the holder LED assy (2) a little bit. (Be careful not to lose the spring (4) which slips off together.)
- 3. Remove the holder LED assy (2) by spreading the A-part of the guide holder a little bit with a flat blade screwdriver. (Be careful not to lose the spring (5) which slips off together.)

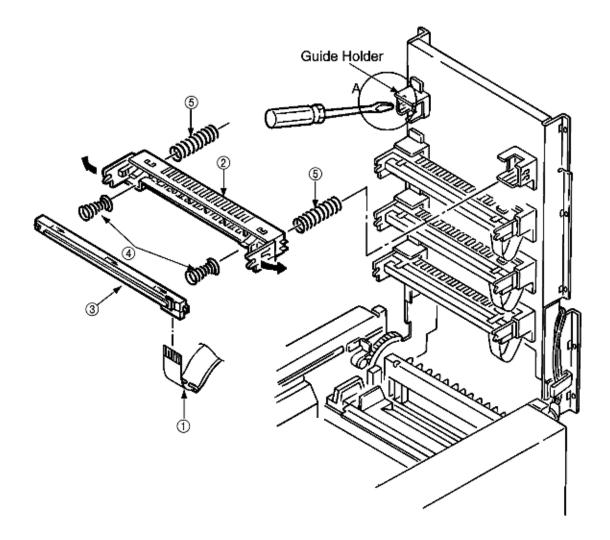


Figure 3.3.45 Holder LED Assy, LED Head





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4. Adjustments

Adjustments are carried out by key operations on the operator panel, by software operation panel, and by EEPROM of PU (PX4-PCB) setting.

This page printer supports three maintenance modes. Select and enter a maintenance mode fit for the adjustment.

- 4.1 Maintenance Modes and Their Functions
- 4.2 Adjustments after Parts Replacement





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- **4.1 Maintenance Modes and Their Functions**
- 4.1.1 User maintenance mode
- 4.1.2 System maintenance mode
- 4.1.3 Engine maintenance mode





4.1.1 User maintenance mode

To enter the user maintenance mode, press and hold the MENU key while powering on the printer.

Functions

- Menu reset
- Resource save area
- Operator panel menu disable
- Y adjust

- Hex dump
- Receive buffer size
- X adjust

(a) Menu reset

- 1. Resets all Menu Level 1 settings to the default settings (which have been factory-set).
- Resets all executable Emulation menu items (including options) to factory-set default emulation items.

(b) Hex dump

- 1. Receives data from the host computer and dumps it in a hexadecimal format.
- 2. When one or more page of data come from the host, printing automatically starts. To print out data of less than one page, press the ONLINE key to set the offline state and press the EJECT key. Printing starts.
- 3. To exit this mode, shut off power to the page printer. This is the only way to exit this mode.

(c) Resource save area

Sets the resource saving area. This menu item appears when the option PS SIMM and RAM increases. The selectable size will also increase. When adding RAM over 24Mbytes, the selection can be made up to 22.5Mbytes. The size upon auto will also increase if the size of the add-on RAM increases.

(d) Receive buffer

Sets the receive buffer. The data transmission time from the upper command will decrease when set to a high value, but memory overflow is more likely to occur. Memory will be restructured with this change, and the contents of all download fonts, PCL macro, and PostScript will be lost.

(e) Operator panel menu disable

Enables or disables the menu functions (Menu1, Menu2, Tray Type, Power Save, and Paper Size) of the operator panel.

(f) X adjust

- 1. Corrects the position of the whole print image so that it may be perpendicular to the movement of paper (at intervals of 0.25mm).
- 2. The print image exceeding the specified printable area is clipped.

(g) Y adjust

- Corrects the position of the whole print image so that it parallels the movement of paper (at intervals of 0.25mm).
- 2. The print image exceeding the specified printable area is clipped.

User maintenance mode menu system

| Category | Selection | DF | After pressing [ENTER] key | After completing the process |
|----------|-----------|----|----------------------------|------------------------------|
| MENU | | | MENU | MENU |
| RESET | | | RESETTING | RESET |
| HEX DUMP | | | ON-LINE | |
| | | | HEX DUMP | |

| RESOURCE SAVE | AUTO | * | | |
|----------------|------------------|---|----------------|--|
| | OFF 400KB | | | |
| | 900KB | | | |
| | 1.6MB | | | |
| | 2.5MB | | | |
| | * | | | |
| | * | | | |
| | * | | | |
| | 19.6MB | | | |
| | 22.5MB | | | |
| RECEIVE BUFFER | AUTO | * | | |
| | 100KB | | | |
| | 512KB | | | |
| | 1MB | | | |
| ECP | ENABLE | * | | |
| | DISABLE | | | |
| OP MENU | ENABLE | * | SETTING EEPROM | |
| | DISABLE | | | |
| X ADJUST | 0 mm | * | SETTING EEPROM | |
| | +0.25 mm | | | |
| | +0.50 mm | | | |
| | ~ | | | |
| | +2.00 mm | | | |
| | -2.00 mm | | | |
| | 1.75 mm | | | |
| | 0.05 | | | |
| Y ADJUST | -0.25 mm 0 mm | * | SETTING EEPROM | |
| I ADJUST | +0.25 mm | | SETTING EEPROW | |
| | +0.25 mm | | | |
| | +0.50 11111 | | | |
| | +2.00 mm | | | |
| | -2.00 mm | | | |
| | -1.75 mm | | | |
| | ~ 1.75 111111 | | | |
| | -0.25 mm | | | |
| | 0.20 111111 | l | 1 | |





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4.1.2 System maintenance mode

To set the system maintenance mode, turn on the power switch of the page printer while pressing on Recover key.

Note: The system maintenance mode is hidden and not available to the user.

To exit this mode, press the ONLINE switch except during rolling ASCII continuous printing. Then the RUN mode is set.

In the system maintenance mode, the category changes each time the MENU switch is pressed. The last category wraps around to the first category. The system maintenance mode supports the following functions:

| • | Page | count | disp | lay |
|---|------|-------|------|-----|
|---|------|-------|------|-----|

- Rolling ASCII continuous printing
- HSP ERROR recovery
- HSP ERROR count reset
- Page count printing enable/disable
- EEPROM reset
- HSP ERROR count display

- (1) Page count display
- The total number of pages counted at the engine is displayed on the operator panel.
- (2) Page count printing enable/disable
- This function selects whether to include (enable) or exclude (disable) the total number of printed pages counted at the engine at the time of menu printing.
- (3) Rolling ASCII continuous printing
- The rolling ASCII pattern is printed continuously for various engine tests.
- Press the ON-LINE key to cancel this mode.
- (4) EEPROM reset
- All EEPROM areas (including Menu level-2) to the factory default values.
- The following items are excluded

Head drive time setting

ENGINE Maintenance Item

Revision (Including Destination setting)

- (5) HSP ERROR recovery
- Select HSP ERROR recovery function either recover or stop.
- (6) HSP ERROR count
- Display total HSP ERROR count.
- (7) HSP ERROR count reset
- Reset the HSP ERROR counter.

System Maintenance mode menu system

| Category | Selection | DF | After pressing [ENTER] key | After completing the process |
|--------------|-------------------|----|----------------------------|---|
| PAGE CNT | | | | |
| nnnnn | | | | |
| PAGE PRT | DISABLE ENABLE | * | | |
| CONT PRT | E. W. ISEE | | CONT PRT PRINTING | CONT PRT CANCELLED (Press the ONLINE button). |
| EEPROM RESET | | | EEPROM RESETTING | |
| HSPERR | RECOVER STOP | * | SETTING EEPROM | |
| HSPERR | | | | |
| CNT nn | | | | |
| HSPERR | | | HSPERR | HSPERR |
| CNT RST | | | RESETTING | CNT RST |



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4.1.3 Engine maintenance mode

To set the engine maintenance mode, turn on the power switch of the page printer while pressing the ENTER and FORM FEED keys. The engine maintenance mode is set and "ENG MNT" is displayed on-screen.

Note: The engine maintenance mode is hidden and not available to the user.

To exit this mode, press the ONLINE switch. The operation mode is entered. The engine maintenance mode supports the following functions:

- Head drive time setting (CYAN, MAGENTA, YELLOW, BLACK)
- Drum count display (CYAN, MAGENTA, YELLOW, BLACK)
- Total drum count display (CYAN, MAGENTA, YELLOW, BLACK)
- Fuser count display
- Belt count display
- Oil roller count display
- Setting of standard tray paper feed length
- Setting of second tray paper feed length
- Setting of front feeder paper feed length
- Engine reset

(1) Head drive time setting (Cyan, Magenta, Yellow, and Black)

Sets the time of driving each LED head.

(2) Drum count display (Cyan, Magenta, Yellow, and Black)

Displays the number of revolutions of each image drum counted by the engine on the LCD.

(3) Total drum count display (Cyan, Magenta, Yellow, and Black)

Displays the total number of rotations at each color.

(4) Fuser count display

Displays the total number of pages handled by the Fuser which have been counted by the engine.

(5) Belt count display

Displays the total number of pages handled by the Belt which have been counted by the engine.

(6) Oil roller count display

Displays the counter of the oil roller.

(7) T1 position (Setting of standard tray paper feed length)

Sets a value for correcting the amount of paper feeding of the standard tray.

(8) T2 position (Setting of second tray paper feed length)

Sets a value for correcting the amount of paper feeding of the second tray.

(9) Engine reset

- Resets the contents of all EEPROM areas used by the engine with default values.
- Does not reset the following items:
 - LED head drive time
 - Menu level 1
 - Menu level 2
 - Operator Panel Menu Disable/Enable

Engine Maintenance mode menu system (1/2)

| Category | Selection | DF | After pressing [ENTER] key | After completing the process |
|------------------|-----------------------|----|----------------------------|------------------------------|
| CYAN LED HEAD | No. 1 No. 2 | | SETTING EEPROM | |
| | No. 16 No. 17 | | | |
| | No. 32 | | | |
| MAGENTA LED HEAD | No. 1 No. 2 - | | SETTING EEPROM | |
| | No. 16 No. 17 - | | | |
| VELLOWLED LIEAD | No. 32 | | OFTTINO FEDDOM | |
| YELLOW LED HEAD | No. 1 No. 2 | | SETTING EEPROM | |
| | No. 16 No. 17 | | | |
| | No. 32 | | | |
| BLACK LED HEAD | No. 1 No. 2 | | SETTING EEPROM | |
| | No. 16 No. 17 | | | |
| | No. 32 | | | |

Engine Maintenance mode menu system (2/2)

| Category | Selection | DF | After pressing [ENTER] key | After completing the process |
|------------------|-----------|----|----------------------------|------------------------------|
| CYAN DRMCNT | | | ey | ρισσσσ |
| nnnn | | | | |
| Cyan DRMCNT | | | | |
| Tnnnnnn | | | | |
| MAGENTA DRMCNT | | | | |
| nnnn | | | | |
| Magenta DRMCNT | | | | |
| T nnnnnn | | | | |
| YELLOW DRMCNT | | | | |
| nnnn | | | | |
| Yellow DRMCNT | | | | |
| T nnnnnn | | | | |
| BLACK DRMCNT | | | | |
| nnnn | | | | |
| Black DRMCNT | | | | |
| T nnnnnn | | | | |
| FUSER COUNT | | | | |
| nnnn | | | | |
| BELT COUNT | | | | |
| nnnn | | | | |
| Oil Roller Count | | | | |
| nnnnnn | | | | |

| T1 POSITION | 0 mm +1 mm ~ +7 mm -8 mm ~ -1 mm | * | SETTING EEPROM | |
|----------------|--|---|------------------|-----------------|
| T2 POSITION | 0 mm +1 mm ~ +7 mm -8 mm ~ -1 mm | * | SETTING EEPROM | |
| FF POSITION | 0 mm +1 mm ~ +7 mm -8 mm ~ -1 mm | * | SETTING EEPROM | |
| ENGINE REST | | | ENGINE RESETTING | ENGINE RESET |





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4.2 Adjustments after Parts Replacement

Adjustments required after parts replacement are listed below.

Adjustment and correction of color deviations are always required after parts are replaced.

| Part replaced | Adjustment required |
|---------------------------------|---|
| LED head | Set the LED head driving time and correct color deviations. |
| Drum cartridge (Y, M, C, and K) | Reset the drum counter and correct color deviations. |
| Fuser Unit | Reset the fuser counter and correct color deviations. |
| Belt cassette assembly | Reset the belt counter and correct color deviations. |
| EEPROM (PU block) | Set the LED head driving time and correct color deviations. |
| Oil Roller | Reset the oil roller counter. |
| Other parts | Correct color deviations (if any). |

4.2.1 Confirm the LED head driving time

4.2.2 Color Registration Adjustment

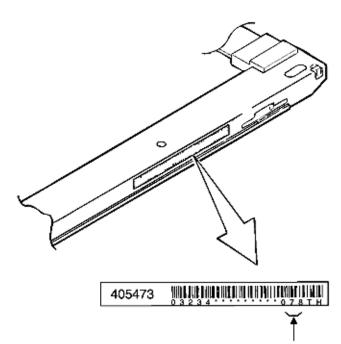




4.2.1 Confirm the LED head driving time

Note: When a new LED HEAD is installed, the printer, reads the contents of the EEPROM within the LED HEAD, automatically re-setting the drive time. Therefore, the re-setting of drive time is not necessary. A confirmation of the drive time re-reset is necessary.

Display of illumination level of the LED head



The trailing three digits of this number indicates the illumination level of the LED head.

| Parameter value (displayed on LCD) | Illumination level of LED head | Parameter value (displayed on LCD) | Illumination level of LED head |
|------------------------------------|-----------------------------------|------------------------------------|--------------------------------|
| (displayed off LCD) | 155 | 17 | 53 - 57 |
| · · | | | |
| 2 | 145 - 154 | 18 | 50 - 52 |
| 3 | 136 - 144 | 19 | 47 - 49 |
| 4 | 127 - 135 | 20 | 44 - 46 |
| 5 | 119 - 126 | 21 | 41 - 43 |
| 6 | 111 - 118 | 22 | 38 - 40 |
| 7 | 104 - 110 | 23 | 36 - 37 |
| 8 | 97 - 103 | 24 | 33 - 35 |
| 9 | 91 - 96 | 25 | 31 - 32 |
| 10 | 85 - 90 | 26 | 29 - 30 |
| 11 | 80 - 84 | 27 | 27 - 28 |
| 12 | 74 - 79 | 28 | 26 - 26 |
| 13 | 70 - 73 | 29 | 25 - 25 |
| 14 | 65 - 69 | 30 | 22 - 24 |
| 15 | 61 - 64 | 31 | 21 - 21 |
| 16 | 58 - 60 | 32 | 20 |





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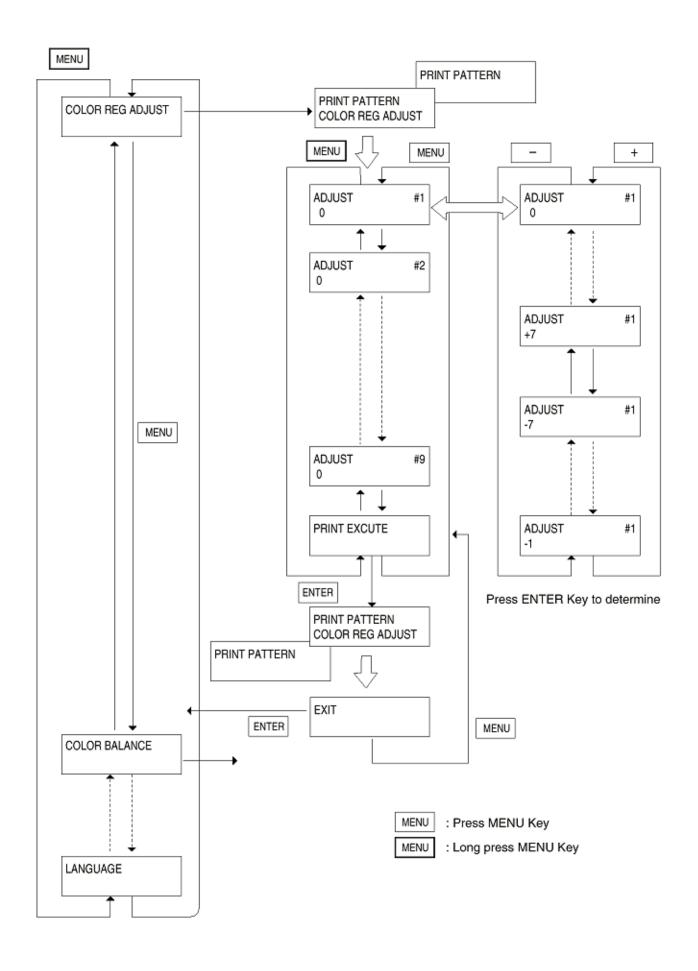
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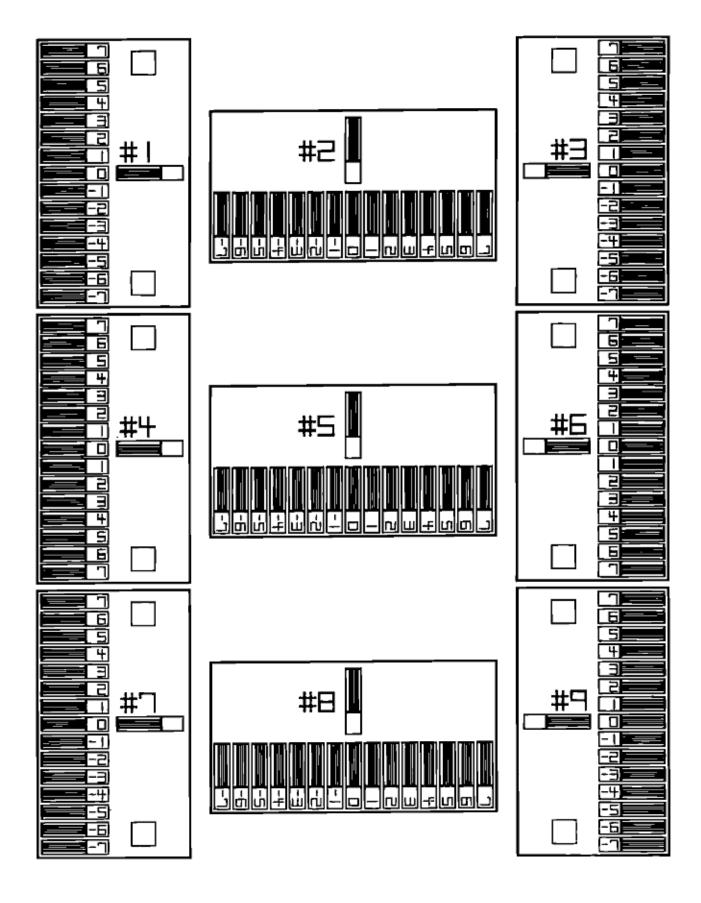
4.2.2 Color Registration Using the Operator Panel (Color deviation correction)

After replacing a part of the page printer, be sure to check whether colors are matched. If not, correct the deviations.

- Method of correcting color deviations
- (a) Enter Menu 2 mode, select the Color Deviation Correction mode (COLOR REG ADJUST EXECUTE), and print out a color chart (PRINT PATTERN).
- (b) Watch the printed color and check color deviations (#1 to #3 for yellow, #4 to #6 for magenta, and #7 to #9 for cyan).
- (c) After a color chart is printed out, the menu shows the ADJUST #1 mode for entering a correction value for the left (#1) yellow chart.
- (d) Enter correction values for #1 (left yellow chart), #2 (middle yellow chart) and #3 (right yellow chart). Similarly enter correction values for #4 to #6 for left, middle, and center magenta charts and for #7 to #9 for left, middle, and center cyan charts.
- (e) After entering all correction values, print out a new color chart (by PRINT EXECUTE), and check color deviation.
- (f) Repeat the above steps until all colors match.
- (g) Press the ONLINE switch to exit the color correction mode (by EXIT). Initialize the page printer and enter the operation mode.

The menus for correction of color deviations are as follows:





Color Check pattern
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Periodic Maintenance

- **5.1 Periodically Replaced Parts**
- 5.2 Cleaning
- 5.3 Cleaning the LED Lens Array
- 5.4 Cleaning the Pickup Roller





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5.1 Periodically Replaced Parts

The parts listed below should be replaced periodically. If the parts are not replaced, output quality may be poor, in extreme cases, the printer may malfunction.

| Parts Name | Display of warning | Recommend condition for | Adjustment after |
|-----------------------|------------------------|-----------------------------|---------------------------|
| | condition | replacement | replacement |
| Toner Cartridge | When the "TONER LOW" | When 3,000 pages are | Replace Toner Cartridge |
| | message is displayed | printed out (5% print | |
| | | density) (without the first | |
| | | cartridge) | |
| Image Drum Unit | When the "CHG DRUM" | When 12,000 pages are | Reset the drum counter of |
| | message is displayed | printed out | the replaced drum |
| Oil Roller Assy | When the "OIL ROLLER | When 10,000 pages are | Replace Holder Assy Oil |
| | LIFE" message is | printed out | Roller |
| | displayed | | |
| Waste toner bottle | When the "WASTE | When 25,000 pages are | Replace Waste Toner |
| | TONER FULL" message is | | Bottle and Oil Roller |
| | displayed | of 5% print density) | |
| Fuser Unit (Heat Unit | When the "FUSER LIFE" | When 60,000 pages are | Reset the fuser counter |
| Assy) | message is displayed | printed out | |
| Transfer Belt | When the "BELT LIFE" | When 50,000 pages are | Reset the belt counter |
| | message is displayed | printed out | |

The above parts may be replaced by the user.





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5.2 Cleaning

Periodically clean the inside and outside of the page printer with a soft cloth and small vacuum cleaner. The vacuum cleaner must have a toner-safe filter.

Caution: Do not touch the terminals of the image drums, the LED lens array, or the LED head connector block.





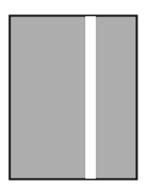
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5.3 Cleaning the LED Lens Array

The LED lens array must be cleaned when the printed paper has white lines or irregular colors (void, light printing) along vertically down of the paper.

CAUTION: Always use the LED head cleaner to clean the LED lens array. (The LED head cleaner always comes with the toner cartridge.)

White line or irregular color (void, light printing)







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5.4 Cleaning the Pickup RollerWhen lines along the length are developed, clean up Pickup Roller.

(Note:) Clean it up with a soft clock and the like so that the surface is not scratched.





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- 6.0 Troubleshooting Procedures 6.1 Troubleshooting Tips
- **6.2 Points to Check before Correcting Image Problems**
- **6.3 Tips for Correcting Image Problems**
- 6.4 Preparation for Troubleshooting
- 6.5 Troubleshooting Charts





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6.1 Troubleshooting Tips

- 1. Check the basic check points covered in the user's manual.
- 2. Gather as much information on the problem from the customer as possible.
- 3. Perform inspections in conditions close to those in which the problem occurred.





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6.2 Points to Check before Correcting Image Problems

- 1. Is the printer being run in proper ambient conditions?
- 2. Have the supplies (toner) and the routine replacement part (image drum cartridge) been replaced properly?
- 3. Does the paper meet specifications? See paper specifications section.
- 4. Has the image drum cartridge been installed properly?





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6.3 Tips for Correcting Image Problems

- 1. Do not touch, or bring foreign matter into contact with the surface of the image drum.
- 2. Do not expose the image drum to direct sunlight.
- 3. Keep hands off the fuser unit as it is heated during operation.
- 4. Do not expose the image drum to light for longer than 5 minutes at room temperature.





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6.4 Preparation for Troubleshooting

(1) Operator panel display

The error messages for this printer are displayed on the liquid crystal display (LCD) in the operator panel. Take proper corrective action as directed by messages that are displayed on the LCD.





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6.5 Troubleshooting Flow

If problems should develop in this printer, troubleshoot using the following flowchart.

- 6.5.1 LCD status message/problem list
- 6.5.2 LCD message troubleshooting
- 6.5.3 Image troubleshooting







6.5.1 LCD status message/trouble listTable 6-1 lists the status and problems that may be indicated by messages on the LCD.

xxx: Emulation in operation (AUT, PCL, PS) ffff: Trays (Tray1, Tray2, Front)

mmmmmm: Paper Size (Letter, A4, etc...)

Table 6.1

| Category | LCD Status | LED | LED C | LED M | LED Y | READY | ATTENTION | Trouble or Status | Remedy |
|---------------------|---|-----------|-----------|-----------|-----------|-----------|-----------|---|--|
| Daily status | Message TNR SNS ******* | ON K | ON | ON | ON | Undefined | ON | Indicates | |
| | FRONT TRAY ERROR PRESS RECOVERKEY | Undefined | Undefined | Undefined | Undefined | OFF | Blink | Indicates that the front feeder has caused a home position error. | The front feeder becomes not available when the RECOVER switch is pressed. The other tray is available. This message is cleared when the front feeder assembly is replaced. |
| Buffer Overflow | ERROR MEMORY OVERFLOW | Undefined | Undefined | Undefined | OFF | OFF | Blink | Indicates that data overflowed the memory space Too much print data in one page - Too much macro data - Too much DLL data - Data overflow after compression of frame data | This error corrected when the RECOVER switch is pressed. Expand RAM or reduce data. |
| | ERROR RECEIVE BUFFER | Undefined | Undefined | Undefined | Undefined | OFF | Blink | Indicates that the receive buffer overflowed. | This error is corrected when the RECOVER switch is pressed. Increase the setting of Receive Buffer Size (in User Maintenance Mode), then send the data from the host or expand RAM. |
| Paper Size Error | ERROR PAPER SIZE CHECK tttttt | Undefined | Undefined | Undefined | Undefined | OFF | Blink | Indicates that paper of the illegal size was fed from the specified tray. ttttt Tray type (Tray 1, Tray 2, or Front) | Check the size of paper in the tray or whether two or more paper sheets are fed at a time. When the cover is opened and closed, this error is reset and printing resumes. If this error occurs frequently, go to 6.5.2. |

| Paper Jam Error | PAPER INPUT JAM CHECK tittit | Undefined | Undefined | Undefined | Undefined | OFF | Blink | Indicates that a paper jam occurred on the paper feeding from the specified tray. tttttt Tray type (Tray 1, Tray 2, or Front) | Check the size of paper in the tray or whether two or more paper sheets were fed a a time. When the cover is opened and closed, this error is reset and printing resumes. If the error occurs frequently, go to 6.5.2. |
|---------------------|---------------------------------------|-----------|-----------|-----------|-----------|-----|-------|---|--|
| Paper Jam Error | PAPER FEED JAM CHECK tttttt | Undefined | Undefined | Undefined | Undefined | OFF | Blink | Indicates that a paper coming out of the tray jammed on the paper traveling printer. tttttt Tray type (Tray 1, Tray 2, or Front) | Check the size of |
| Paper Jam Error | PAPER FEED JAM CHECK tttttt | Undefined | Undefined | Undefined | Undefined | Off | Blink | Indicates that a paper coming out of the tray jammed on the paper traveling printer. ttttt Tray type (Tray 1, Tray 2, or Front) | or whether two or more paper sheets were fed a |
| | PAPER EXIT JAM REMOVE THE PAPER | Undefined | Undefined | Undefined | Undefined | OFF | Blink | Indicates that a paper jammed on the way to the exit. | Open the cover and remove a paper jam from the inside of the page printer. When the cover is opened and closed, this error is reset and printing resumes. If this error occurs frequently, go to 6.5.2. |
| Controller Error | EEPROM RESETTING | Undefined | Undefined | Undefined | Undefined | OFF | Blink | Indicates that the ID number of EEPROM is invalid. | Set the default values in EEPROM and it'll be recovered automatically. |

Category: Controller Error (continued) - Table 6.1

| catogory. com | | 100 | u, .u.s.s s | | | | | | |
|---------------|-----|-----|-------------|-----|-------|--------|------|------------|--------|
| LCD Status | LED | LED | LED | LED | READY | ATTENT | Code | Trouble or | Remedy |
| Message | K | С | M | Y | | ION | (nn) | Status | - |
| | | | | | | | | Details of | Remedy |
| | | | | | | | | error | |



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6.5.2 LCD message troubleshooting

If a problem cannot be repaired according to the LCD message problem list, troubleshoot using the troubleshooting chart.

| No. | Trouble | Flowchart Number |
|-----|---|---------------------|
| 1 | The printer does not work normally after being turned on. | (1) |
| 2 | JAM Error | |
| | Paper Input Jam (1st Tray) | (2) -1 |
| | Paper Input Jam (Front Feeder) | (2) -2 |
| | Paper Feed Jam | (2) -3 |
| | Paper Exit Jam 2-4 | (2) -4 |
| 3 | Paper Size Error | (3) |
| 4 | Image Drum Unit Up/Down Error | (4) |
| 5 | Fusing Unit Error | (5) |
| 6 | Fan Motor Error | (6) |
| 7 | Cannot receive data from parallel interface | (7) |

Note: When replacing the main board (PCE PCB) and the engine board (PX4 PCB), remove EEPROM chips from the old boards and install them on the new boards.





(1) The printer does not work normally after turned on.

· Turn off the power of the printer, wait a few seconds, then turn on power again.

Is **THE STREET** displayed on the LCD (for about 1 second)? ------Is the AC cable connected correctly? No Connect the AC cable correctly. Yes Does a voltage of +5V are being supplied on the panel connector of the main board (PCE PCB)? Pin 5: +5V Pin 2: 0V Yes Is the operator panel cable connected correctly? No Connect the cable correctly. Yes Replace the operator panel cable. Recovered? Replace the cover assembly operator panel. Yes End Check the connection of the PU connector. Does a voltage of +5V are being supplied on the PU connector of the main board (PCE PCB)? Pin 6, 15, 26, 35: +5V Pin 1, 3, 5, 11, 20, 21, 40: 0V Yes Replace the main board. Does a voltage of +5V are being supplied on the Power connector of the engine board (PX4 PCB)? Pin 11,12, 13, 14: +5V Pin 3, 4, 5, 6, 23, 24, 5, 26, 27, 28, 29, 30: 0V Check the connection of the power connector or replace the low-voltage power supply unit. Yes Replace the engine board. Yes Do the following voltages are being supplied on the PU connector of the main board? Pin 6, 15, 26, 35: +5V Pin 2, 22: +3.3V Pin 23: -12V Pin 25: +12V Pin 1, 3, 5, 11, 20, 21, 40: 0V Yes Replace the main board. No Do the following voltages are being supplied on the power connector of the engine board? Pin 15, 16, 17, 18: +3.3V Pin 11, 12, 13, 14: +5V Pin 1: +12V Pin 2: -12V Pin 7, 8, 9, 10: +32V Pin 3, 4, 5, 6, 23, 24, 25, 26, 27, 28, 29, 30: 0V Yes Replace the engine board. No Replace the low-voltage power supply unit.





(2) JAM ERROR

2-1 Paper input jam (1st tray)

Does the paper reach the FF sensor 1 or 2?

Yes Remove the paper jam.

Do the sensor levers (FF sensor 1, FF sensor 2) work right?

. No Replace the defective sensor lever (FF sensor 1, FF sensor 2).

Yes Do the sensors (FF sensor 1, FF sensor 2) work right? (Operate each sensor lever and check its signal on the related pin of the FSENS connector of the junction board (PXF-PCB).) Pin 1 for FF sensor 1, Pin 4 for FF sensor 2

No Check the connection of the signal cable or replace the sensor board (PXM PCB).

Yes Is the junction board (PXF PCB) operation properly?

(Operate each sensor lever and check its signal on the related pin of the PXFIF connector of the junction board (PXF-PCB).)

Pin B8 for FF sensor 1, Pin A7 for FF sensor 2

No Replace the junction board (PXF-PCB).

Yes Check the connection of the connectors between the junction board (PXF PCB) and the engine board (PX4 PCB) or replace the engine board.

No Replace the feed roller or the paper separation frame assembly of the paper cassette.

Is the regist motor rotates properly?

Yes Replace the feed roller or the paper separation frame assembly of the paper cassette.

No Is the resistance of the regist motor about 7.1 ohms?

No Replace the regist motor.

Yes Is +32V being supplied on the FU2 of the engine board?

No Replace the low-voltage power supply.

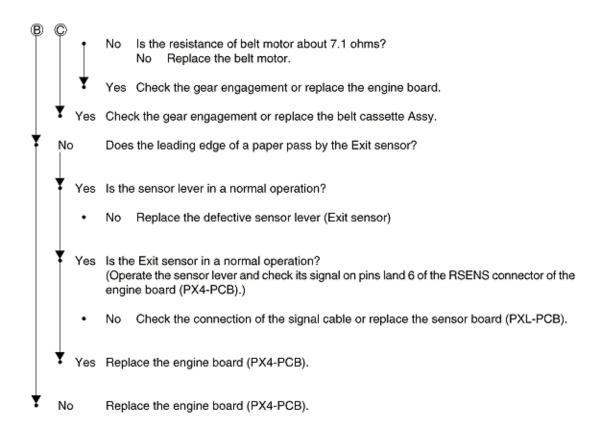
Yes Check the gear engagement and the connection of the cables or replace the engine board.

2-2 Paper input jam (Front feeder)

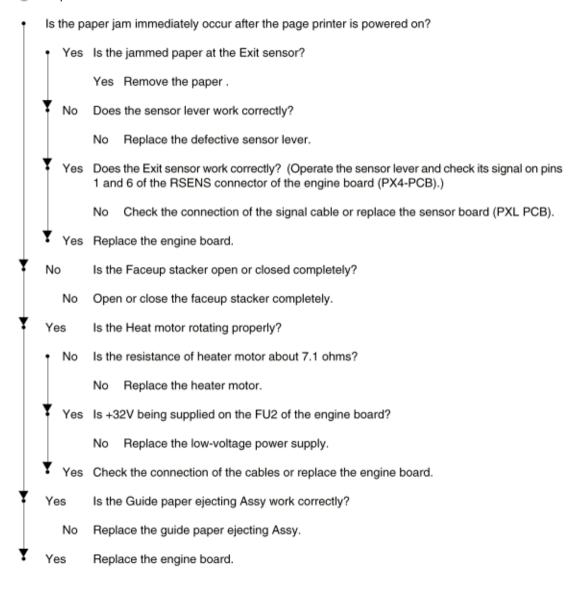
Is the paper jam immediately occur after the page printer is powered on? Yes Is the paper jam occur FF sensor 2? Yes Remove the paper jam. Nο Do the sensor levers (FF sensor 2) work right? Replace the defective sensor lever (FF sensor 2). Yes Do the sensor (FF sensor 2) work right? (Operate sensor lever and check its signal on the related pin of the FSENS connector of the junction board (PXF-PCB).) Pin 4 for FF sensor 2 Check the connection of the signal cable or replace the sensor board (PXM PCB). Yes Is the junction board (PXF PCB) operation properly? (Operate each sensor lever and check its signal on the related pin of the PXFIF connector of the junction board (PXF-PCB).) Pin A7 for FF sensor 2 No Replace the junction board (PXF-PCB). Yes Check the connection of the cables between the junction board (PXF PCB) and the engine board (PX4 PCB) or replace the engine board. No Is the paper jam immediately occur after paper feeding? Yes Does the paper reach the FF sensor 2? Yes Go to (A). Replace the front feeder assembly. No Does the front feeder motor rotate properly? Is +32V being supplied on the FU2 of the engine board? No Replace the low-voltage power supply. Yes Check the connection of cables or replace the engine board. Yes Check the connection of cables or replace the engine board.

2-3 Paper feed jam

Is the paper jam immediately occur after the page printer is powered on? Yes Is there jam med paper at the Write sensor? Yes Remove the paper jam. Does the lever of the Write sensor work right? Nο No Replace the lever of Write sensor. Yes Does the Write sensor work right? (Operate the lever of the Write sensor and check its signal on the related pin of the FSENS connector of the junction board (PXF-PCB).) Pin 2 for Write sensor Check the connection of the cable or replace the sensor board (PXM PCB). Is the junction board (PXF PCB) operation properly? (Operate the lever of the Write sensor and check its signal on the related pin of the PXFIF connector of the junction board (PXF-PCB).) Pin A8 for Write sensor Replace the junction board (PXF-PCB). Check the connection of the cables between the junction board (PXF PCB) and the engine board (PX4 PCB). Is the connection properly? No Connect the cables properly. Replace the engine board. No Is the paper jam immediately occur after paper feeding? Yes Does the paper reach the Write sensor? Yes Go to (A). Regist motor rotates? No Is the resistance of the regist motor about 7.1 ohms? Replace the regist motor. Yes Check the gear engagement or replace the engine board. Replace the resist roller 1 or 2. No Is the paper jam occur when paper loading? Yes Is the Belt motor rotates properly?



2-4 Paper Exit Jam







(3) Paper Size Error

No Use paper which is under the specification.

Yes Is the paper jam med at the Lever regist sensor or the Write sensor?

Yes Remove the paper.

Yes Does the sensor levers (Lever regist sensor) work correctly?

No Replace the defective sensor lever (Lever regist sensor).

Yes Does the sensor (Lever regist sensor) work correctly? (Operate each sensor lever and check its signal on the related pin of the FSENS connector of the junction board (PXF-PCB).

Pin 4 for Lever regist sensor

No Check the connection of the cables or replace the sensor board (PXM-PCB).

Yes Does the Write sensor lever work correctly?

No Replace the Write sensor lever.

Yes Does the Write sensor work correctly? (Operate the sensor lever and check its signal on

the related pin of the FSENS connector of the junction board (PXF-PCB).)

Pin 2 for Write sensor

No Check the connection of the cables or replace the sensor board (PXM PCB).

Yes Is the Junction board (PXF PCB) work correctly?

(Operate the Write sensor lever and check its signal on the related pin of the PXFIF

connector of the junction board (PXF-PCB).)

Pin A8 for Write sensor

No Replace the junction board (PXF-PCB).

Yes Check the connection of the cables between the junction board (PXF PCB) and the engine

board (PX4 PCB) or replace the engine board. Connection correctly?

No Connect the cables correctly.

Yes Replace the engine board.



(4) Image Drum Unit (IDU) Up/Down Error

Turn off power to the page printer, wait a few seconds, then turn on power again.

Each image drum unit (IDU) motor rotating for printout? Is the value of IDU motor resistance about 7.1 ohms? Replace the defective IDU motor. Yes Is +32V being supplied on the FU2 of the engine board? No Replace the low-voltage power supply. Yes Check the connection of the cables or replace the engine board. Yes Each IDU sensor lever work correctly? Check the gear engagement and the sensor lever operation or replace the gear or the sensor Yes Is each IDU sensor work correctly? (Cover up for each IDU sensor to shut off light and check its signal on the related pin of the PXFI connector of the junction board (PXF PCB).) Pin B13 for the yellow IDU sensor Pin A13 for the magenta IDU sensor Pin B14 for the cyan IDU sensor Pin A14 for the black IDU sensor Replace the junction board (PXF PCB). Nο Check the connection of the cables between the junction board (PXF PCB) and the engine Yes

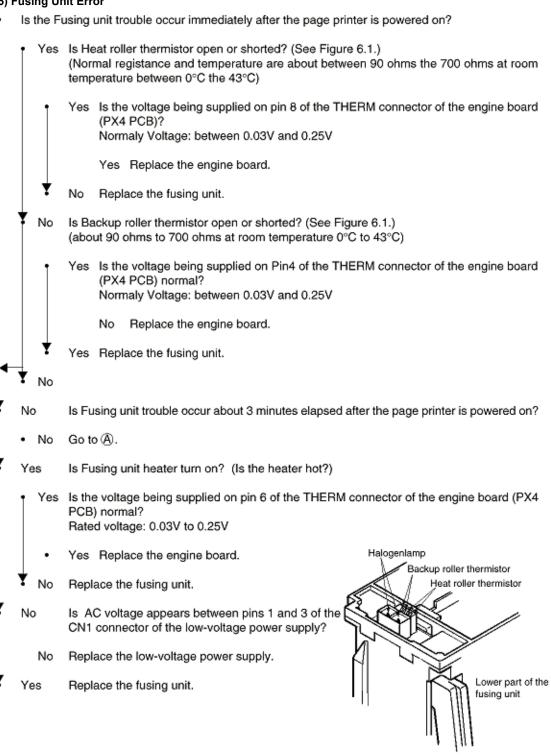
board (PX4 PCB) or replace the engine board.

Figure 6.1





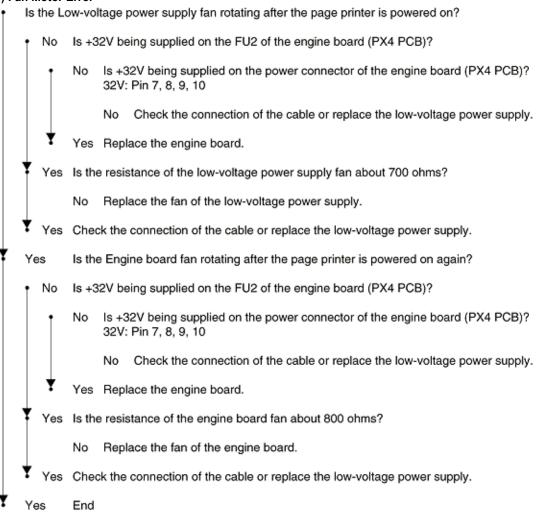
(5) Fusing Unit Error







(6) Fan Motor Error





(7) Cannot Receive Data from Parallel Interface

Is "PARALLEL I/F" (in menu 1) set to "ENABLE"?

No Set the "PARALLEL I/F" (in menu 1) to "ENABLE."

Yes Is Parallel interface of the host computer set to "Bidirectional Communication"?

Yes Set the "Bidirectional Communication" of "Parallel Interface" (in menu 2) to "ENABLE."

No Set the "Bidirectional Communication" of "Parallel Interface" (in menu 2) to "DISABLE."

Is Data printed out?

Yes End

No Is Parallel interface cable connected correctly?

No Connect the cable correctly.

Yes Check the connection of the parallel interface cable (for wire disconnections or bent pins).

Is it recovered?

No Replace the parallel interface cable.

Yes Replace the main board (PCE PCB) or check hardware and software of the host computer.



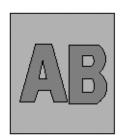
6.5.3 Image Troubleshooting

When the printout images are not satisfactory, follow the troubleshooting steps listed below.

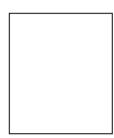
| Printout problem | Reference flowchart No. |
|---|-------------------------|
| Light or blurred images (Figure 6.2-A) | (1) |
| Dark background (Figure 6.2-B) | (2) |
| Blank paper (Figure 6.2-C) | (3) |
| Vertical black (Figure 6.2-D) | (4) |
| Vertical white (Figure 6.2-F) | (5) |
| Poor fusing (Images are blurred or peeled off when touched) | (6) |
| Evenly spaced, repeating marks (Figure 6.2-E) | (7) |
| Missing characters or colors | (8) |
| Poor synthesization Color | (9) |
| Printout colors different from original colors | (10) |



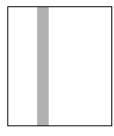
(A) Light or blurred images as a whole



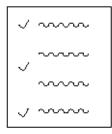
(B) Dark background density



(C) Blank paper



(D) Black stripes in the vertical direction



(E) Cyclical defect



(F) White belts or streaks in the vertical direction



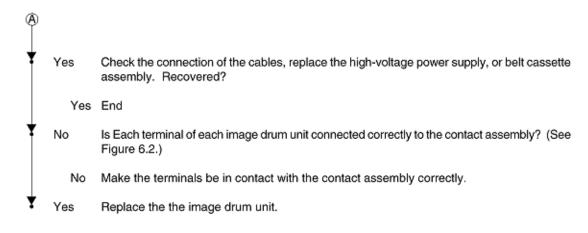


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(1) Light or blurred images on the whole printout area

```
Yes Supply toner.
Nο
        Specified paper?
        Use the specified paper.
Yes
        Is the lens of the LED head dirty?
   Yes Clean the LED head lens.
No
        Is Each LED head assembly connected correctly to the junction board (PD6 PCB)?
        Check the connection of the cables (between each LED head and the junction board) or
        connect the LED head cables to the junction board correctly.
        Is +3.3V being supplied on the following pins of the HEADPOW connector of the junction
Yes
        board (PD6 PCB)?
        +3.3V: Pin 1, 2, 3, 4, 5, 6
   Yes Is +3.3V being supplied to each LED head assembly from the junction board (PD6 PCB)?
        Pins 1, 2, 3, 4, 5, 6 of the YPOW connector for the yellow LED head assembly
        Pins 1, 2, 3, 4, 5, 6 of the MPOW connector for the magenta LED head assembly
        Pins 1, 2, 3, 4, 5, 6 of the CPOW connector for the cyan LED head assembly
        Pins 1, 2, 3, 4, 5, 6 of the BPOW connector for the black LED head assembly
              Replace the junction board (PD6 PCB).
  Yes Check the connection of the cables or replace the LED head assembly.
No
        Is +3.3V being supplied on the following pins of the HEADPOW connector of the engine
        board (PX4 PCB)?
        +3.3V: Pin 1, 2, 3, 4, 5, 6
   Yes Replace the cable.
No
        Is +3.3V being supplied on the following pins of the POWER connector of the engine board
        (PX4 PCB)?
        +3.3V: Pin 15, 16, 17, 18
   Yes Replace the engine board.
Nο
        Check the connection of the cables or replace the low-voltage power supply. Recovered?
   Yes End
Nο
        Is +32V being supplied on the power connector of the engine board (PX4 PCB)?
        +32V: Pin 7, 8, 9, 10
        Check the connection of the cables or replace the low-voltage power supply.
Yes
        Is +32V being supplied on pin 2 of the HVOLT connector of the engine board (PX4 PCB)?
        Replace the engine board.
   Nο
```

Is toner low? ("TONER LOW" indicator on?)



- Notes: 1. When replacing the engine board (PX4 PCB), demount the EEPROM chip from the old engine board and remount it on the new one.
 - After replacing the image drum unit and the belt cassette assembly, be sure to reset their counters in the User Maintenance mode.
 - After replacing the LED head assembly, be sure to adjust its drive time and correct its color deviation.





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(2) Dark background

Yes Replace the image drum unit or put the image drum unit in the printer and close the upper cover and wait for 15min. Note: After replacing the image drum unit, be sure to reset its counter. No Is the Roller of the fusing unit (heat roller, oil roller, or cleaning oil roller) contaminated? Yes Replace the fusing unit or the oil roller assembly. No Is the setting of "MEDIA TYPE" (in menu 1) correct? LIGHT:60g/m² LIGHT MIDIUM:67.5g/m² MEDIUM:75g/m² MEDIUM HEAVY:90g/m² HEAVY:105g/m² ULTRA HEAVY:120g/m² TRANSPARENCY:OHP Set the "MEDIA TYPE" correctly. Yes Is the setting of the LED head drive time correct? Set the LED head drive time correctly. No Is Each LED head assembly connected correctly to the junction board (PD6 PCB)? Connect the LED assembly correctly to the junction board (PD6 PCB) correctly. Is +3.3V on the following pins of the HEADPOW connector of the junction board (PD6 PCB) Yes being supplied? +3.3V: Pin 1, 2, 3, 4, 5, 6 Yes Is +3.3V being supplied on the following pins of the cable connector between the junction board (PD6 PCB) and each LED head assembly? Pins 1, 2, 3, 4, 5 and 6 of the YPOW connector for the yellow LED head assembly Pins 1, 2, 3, 4, 5 and6 of the MPOW connector for the magenta LED head assembly Pins 1, 2, 3, 4, 5 and 6 of the CPOW connector for the cyan LED head assembly Pins 1, 2, 3, 4, 5 and 6 of the BPOW connector for the black LED head assembly Replace the junction board (PD6 PCB). Yes Check the connection of the cables or replace the LED head assembly. No Is +3.3V on the following pins of the HEADPOW connector of the engine board (PX4 PCB) being supplied? +3.3V: Pin 1, 2, 3, 4, 5, 6 Yes Replace the HEADPOW cable. No Is +3.3V on the following pins of the POWER connector of the engine board (PX4 PCB) being supplied? Yes Replace the engine board. No Check the connection of the cables or replace the low-voltage power supply. Recovered? Yes End Nο Is +32V on the power connector of the engine board (PX4 PCB) being supplied? +32V: Pin 7, 8, 9, 10

Each image drum exposed to external lights for a long time?

| (A) | No | Charles the compaction of the college or replace the law valters are represented. |
|-----|-----|---|
| | No | Check the connection of the cables or replace the low-voltage power supply. |
| Ť | Yes | Is +32V on pin 2 of the HVOLT connector of the engine board (PX4 PCB) being supplied? |
| | No | Replace the engine board. |
| * | Yes | Check the connection of the cables or replace the high-voltage power supply or belt cassette assembly. Recovered? |
| | Yes | End |
| * | No | Is each terminal of each image drum unit connected to the contact assembly correctly? (See Figure 6.2.) |
| | No | Make the terminals be in contact with the contact assembly correctly. |
| Ť | Yes | Replace the the image drum unit. |
| | | |

- Notes: 1. When replacing the engine board (PX4 PCB), demount the EEPROM chip from the old engine board and remount it on the new one.
 - After replacing the image drum unit and the belt cassette assembly, be sure to reset their counters in the User Maintenance mode.
 - After replacing the LED head assembly, be sure to adjust its drive time and correct its color deviation.



Printout colors different from original colors

Is each LED head lens contaminated? Yes Clean the LED head lens. No Is each LED head assembly connected to the junction board (PD6 PCB) correctly? No Check the connection of the cables (between each LED head and the junction board) or connect the LED head cables to the junction board correctly. Yes Is +3.3V on the following pins of the HEADPOW connector of the junction board (PD6 PCB) being supplied? +3.3V: Pin 1, 2, 3, 4, 5, 6 Yes Is +3.3V being supplied to each LED head assembly from the junction board (PD6 PCB)? Pins 1, 2, 3, 4, 5 and 6 of the YPOW connector for the yellow LED head assembly Pins 1, 2, 3, 4, 5 and 6 of the MPOW connector for the magenta LED head assembly Pins 1, 2, 3, 4, 5 and 6 of the CPOW connector for the cyan LED head assembly Pins 1, 2, 3, 4, 5 and 6 of the BPOW connector for the black LED head assembly No Replace the junction board (PD6 PCB). Yes Check the connection of the cables or replace the LED head assembly. Is +3.3V on the following pins of the HEADPOW connector of the engine board (PX4 PCB) No being supplied? +3.3V: Pin 1, 2, 3, 4, 5, 6 Yes Replace the HEADPOW cable. Is +3.3V on the following pins of the POWER connector of the engine board (PX4 PCB) No being supplied? +3.3V: Pin 15, 16, 17, 18 Yes Replace the engine board. Nο Check the connection of the cables or replace the low-voltage power supply. Is the problem Yes End Is +32V on the power connector of the engine board (PX4 PCB) being supplied? Nο +32V; Pin 7, 8, 9, 10 No Check the connection of the cables or replace the low-voltage power supply. Is +32V on pin 2 of the HVOLT connector of the engine board (PX4 PCB) being supplied? Yes No Replace the engine board. Yes Check the connection of the cables, replace the high-voltage power supply or belt cassette assembly. Is the problem recovered? Yes End Νo Is Each terminal of each image drum unit connected to the contact assembly correctly? (See Figure 6.3.)

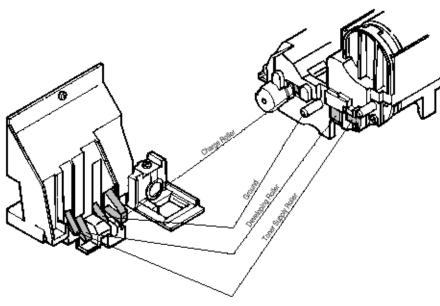


No Make the terminals be in contact with the contact assembly correctly.

Yes Replace the the image drum unit.

Notes: 1. When replacing the engine board (PX4 PCB), demount the EEPROM chip from the old engine board and remount it on the new one.

- After replacing the image drum unit and the belt cassette assembly, be sure to reset their counters in the User Maintenance mode.
- After replacing the LED head assembly, be sure to adjust its drive time and correct its color deviation.



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(3) Blank paper

Is each LED head assembly connected to the junction board (PD6 PCB) correctly?

No Check whether or not the connection of the cables or connect the LED assembly to the junction board (PD6 PCB) correctly.

Yes Is +3.3V on the following pins of the HEADPOW connector of the junction board (PD6 PCB) being supplied?

+3.3V: Pin 1, 2, 3, 4, 5, 6

Yes Is +3.3V on the following pins of the cable connector between the junction board (PD6 PCB) and each LED head assembly being supllied?

Pins 1, 2, 3, 4, 5 and 6 of the YPOW connector for the yellow LED head assembly Pins 1, 2, 3, 4, 5 and 6 of the MPOW connector for the magenta LED head assembly Pins 1, 2, 3, 4, 5 and 6 of the CPOW connector for the cyan LED head assembly Pins 1, 2, 3, 4, 5 and 6 of the BPOW connector for the black LED head assembly

No Replace the junction board (PD6 PCB).

Yes Check the connection of the cables or replace the LED head assembly.

No Is +3.3V on the following pins of the HEADPOW connector of the engine board (PX4 PCB) being supplied?

+3.3V: Pin 1, 2, 3, 4, 5, 6

Yes Replace the HEADPOW cable.

No Is +3.3V on the following pins of the POWER connector of the engine board (PX4 PCB) being supplied?

+3.3V: Pin 15, 16, 17, 18

Yes Replace the engine board.

No Check the connection of the cables or replace the low-voltage power supply. Is the problem recovered?

Yes End

No Is +32V on the power connector of the engine board (PX4 PCB) being supplied? +32V: Pin 7, 8, 9, 10

No Check the connection of the cables or replace the low-voltage power supply.

Yes Is +32V on pin 2 of the HVOLT connector of the engine board (PX4 PCB) being supplied?

No Replace the engine board.

Yes Check the connection of the cables or replace the high-voltage power supply or belt cassette assembly. Recovered?

Yes End



No Is each terminal of each image drum unit connected to the contact assembly correctly? (See Figure 6.2.)

No Make the terminals be in contact with the contact assembly correctly.

Yes Replace the the image drum unit.

- Notes: 1. When replacing the engine board (PX4 PCB), demount the EEPROM chip from the old engine board and remount it on the new one.
 - After replacing the image drum unit and the belt cassette assembly, be sure to reset their counters in the User Maintenance mode.
 - After replacing the LED head assembly, be sure to adjust its drive time and correct its color deviation.



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(4) Vertical black (black stripe or lines in the vertical direction)

Is each LED head assembly connected to the junction board (PD6 PCB) correctly?

No Connect the LED head assembly to the junction board correctly.

Yes Check the connection of the cables or replace the LED head assembly. Is the problem recovered?

Yes End

No Check the connection of the cables or replace the junction board (PD6 PCB). Recovered?

Yes End

No Is engine board (PX4 PCB) connected to the junction board (PD6 PCB) correctly?

No Connect the engine board to the junction board correctly.

Yes Check the connection of the cables or replace the engine board (PX4 PCB). Is the problem

recovered?

Yes End

No Is Each terminal of each image drum unit connected to the contact assembly correctly? (See

Figure 6.2.)

No Make the terminals be in contact with the contact assembly correctly.

Yes Replace the the image drum unit.

Notes: 1. When replacing the engine board (PX4 PCB), demount the EEPROM chip from the old engine board and remount it on the new one.

- After replacing the image drum unit, be sure to reset its counter in the User Maintenance mode.
- After replacing the LED head assembly, be sure to adjust its drive time and correct its color deviation.



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(5) Vertical white (White stripe or lines in the vertical direction)

Is each LED head lens contaminated?

Yes Clean the LED head lens.

No Is each LED head assembly connected to the junction board (PD6 PCB) correctly?

No Connect the LED head assembly to the junction board (PD6 PCB) correctly.

Yes Check the connection of the cables or replace the LED head assembly. Is the problem

recovered?

Yes End

No Check the connection of the cables or replace the junction board (PD6 PCB). Is the problem

recovered?

Yes End

No Is engine board (PX4 PCB) connected to the junction board correctly?

No Connect the boards correctly.

Yes Check the connection of the cables or replace the engine board (PX4 PCB). Is the problem

recovered?

Yes End

No Is each terminal of each image drum unit connected to the contact assembly correctly?

(See Figure 6.2.)

No Make the terminals be in contact with the contact assembly correctly.

Yes Replace the the image drum unit.

 When replacing the engine board (PX4 PCB), demount the EEPROM chip from the old engine board and remount it on the new one.

After replacing the image drum unit, be sure to reset its counter in the User Maintenance mode.

After replacing the LED head assembly, be sure to adjust its drive time and correct its color deviation.





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(6) Poor fusing (Images are blurred or peeled off when touched)

Is the paper under specification being used?

No Use the paper under the specification.

Yes Is contacts of the fusing unit assembly connected correctly?

No Connect the contacts correctly.

Yes Are there any rollers of the fusing unit (heat roller, oil roller, or cleaning oil roller) contaminated?

Yes Replace the fusing unit assembly or oil roller assembly.

No Is the setting of "MEDIA TYPE" (in menu 1)correctly?

LIGHT:60g/m² LIGHT MIDIUM:67.5g/m² MEDIUM:75g/m² MEDIUM HEAVY:90g/m²

HEAVY:105g/m2 ULTRA HEAVY:120g/m2 TRANSPARENCY:OHP

No Set the "MEDIA TYPE" correctly.

Yes Is AC voltage between pin 1 and 3 of the CN1 connector of the low-voltage power supply

being supplied?

No Replace the low-voltage power supply.

Yes Is resistance range of the heat roller thermistor under the regulation? (See Figure 6.1.) (It's

about between 90 ohms and 700 ohms at room temperature of 0°C to 43°C)

No Replace the fusing unit assembly.

Yes Is resistance range of the backup roller thermistor under the regulation? (See Figure 6.1.)

(It's about between 90 ohms and 700 ohms at room temperature of 0°C to 43°C)

No Replace the fusing unit assembly.

Yes Is the signal THERM1 on pin 6 of the THERM connector of the engine board (PX4 PCB) in

the following range?

LIGHT and LIGHT MEDIUM:2.8V~3.5V MEDIUM:3.1V~3.8V MEDIUM HEAVY:3.1V~3.9V HEAVY:3.4V~4V

ULTRA HEAVY:3.4V~4.1V TRANSPARENCY default value:3.4V~4V

No Replace the fusing unit assembly.

Yes Replace the fusing unit assembly.

Notes: 1. When replacing the engine board (PX4 PCB), demount the EEPROM chip from the old engine board and remount it on the new one.

- After replacing the image drum unit, the fusing unit, and the belt cassette assembly, be sure to reset their counters in the User Maintenance mode.
- After replacing the LED head assembly, be sure to adjust its drive time and correct its color deviation.





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(7) Evenly spaced, repeating marks (Cyclical printout defects)

| | Possibly defective part | Repairing |
|---------|-------------------------|-------------------------------------|
| 94.2 mm | Image Drum | Replace the image drum unit. |
| 44.0 mm | Developing Roller | Replace the image drum unit. |
| 28.3 mm | Toner Supply Roller | Replace the image drum unit. |
| 28.3 mm | Charging Roller | Replace the image drum unit. |
| 114 mm | Heat Roller | Replace the fusing unit assembly. |
| 114 mm | Pressure Roller | Replace the fusing unit assembly. |
| 47.1 mm | Transfer Roller | Replace the Transfer Belt assembly. |

Note: After replacing the image drum unit the fusing unit and the Transfer Belt cassette assembly, be sure to reset their counters in the User Maintenance mode.



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(8) Missing characters or colors

Is each LED head lens contaminated? Yes Clean the lens of LED head. No Is each LED head assembly connected to the junction board (PD6 PCB) correctly? Check the connection of the cables (between each LED head and the junction board) or connect the LED head cables to the junction board correctly. Yes Is +3.3V on the following pins of the HEADPOW connector of the junction board (PD6 PCB) being supplied? +3.3V: Pin 1, 2, 3, 4, 5, 6 Yes Is +3.3V being supplied to each LED head assembly from the junction board (PD6 PCB)? Pins 1, 2, 3, 4, 5 and 6 of the YPOW connector for the yellow LED head assembly Pins 1, 2, 3, 4, 5 and 6 of the MPOW connector for the magenta LED head assembly Pins 1, 2, 3, 4, 5 and 6 of the CPOW connector for the cyan LED head assembly Pins 1, 2, 3, 4, 5 and 6 of the BPOW connector for the black LED head assembly Replace the junction board (PD6 PCB). Y Yes Check the connection of the cables or replace the LED head assembly. Is +3.3V on the following pins of the HEADPOW connector of the engine board (PX4 PCB) No being supplied? +3.3V: Pin 1, 2, 3, 4, 5, 6 Yes Replace the HEADPOW cable. Is +3.3V being supplied on the following pins of the POWER connector of the engine board No (PX4 PCB)? +3.3V: Pin 15, 16, 17, 18 Yes Replace the engine board. No Check the connection of the cables or replace the low-voltage power supply. Is the problem recovered? Yes End No Is +32V on the power connector of the engine board (PX4 PCB) being supplied? +32V: Pin 7, 8, 9, 10 Check the connection of the cables or replace the low-voltage power supply. Is +32V on pin 2 of the HVOLT connector of the engine board (PX4 PCB) being supplied? Yes Replace the engine board. Nο Yes Check the connection of the cables, replace the high-voltage power supply or belt cassette assembly. Is the problem recovered? Yes End Is each terminal of each image drum unit connected to the contact assembly correctly? (See Nο Figure 6.3.)



No Make the terminals be in contact with the contact assembly correctly.

Yes

Replace the the image drum unit.

- Notes: 1. When replacing the engine board (PX4 PCB), demount the EEPROM chip from the old engine board and remount it on the new one.
 - After replacing the image drum unit and the belt cassette assembly, be sure to reset their counters in the User Maintenance mode.
 - After replacing the LED head assembly, be sure to adjust its drive time and correct its color deviation.





(9) Poor synthesization Color

Correct color deviations of each LED head by "COLOR REG ADJUST EXECUTE." Is the problem recoverd?

Yes End

No Are there any gear broken of the unit (Image drum unit gear assembly, front feeder assembly, belt unit assembly or belt motor assembly, etc.)?

Yes Replace the broken gear assembly.

No Is each LED head unit connected to the junction board (PD6 PCB) correctly?

No Connect the boards correctly.

Yes Check the connection of the cables or replace the LED head assembly. Is the problem recovered?

Yes End

No Check the connection of the cables or replace the junction board (PD6 PCB). Is the problem recovered?

Yes End

No Is engine board (PX4 PCB) connected to the junction board (PD6 PCB) correctly?

No Connect the boards correctly.

Yes Check the connection of the cables or replace EEPROM of the engine board. Is the problem recovered?

Yes End

No Replace the engine board. Recovered?

Yes End

No Is each terminal of each image drum unit connected to the contact assembly correctly? (See Figure 6.3.)

No Make the terminals be in contact with the contact assembly correctly.

Yes Replace the the image drum unit.

Notes: 1. When replacing the engine board (PX4 PCB), demount the EEPROM chip from the old engine board and remount it on the new one.

- 2. After replacing the image drum unit, be sure to reset its counter in the User Maintenance
- After replacing the LED head assembly, be sure to adjust its drive time and correct its color deviation.





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(10) Printout colors diferent from original colors

```
Is each LED head lens contaminated?
   Yes Clean the LED head lens.
No
        Is each LED head assembly connected to the junction board (PD6 PCB) correctly?
        Check the connection of the cables (between each LED head and the junction board) or
        connect the LED head cables to the junction board correctly.
Yes
        Is +3.3V on the following pins of the HEADPOW connector of the junction board (PD6 PCB)
        being supplied?
        +3.3V: Pin 1, 2, 3, 4, 5, 6
   Yes Is +3.3V being supplied to each LED head assembly from the junction board (PD6 PCB)?
        Pins 1, 2, 3, 4, 5 and 6 of the YPOW connector for the yellow LED head assembly
        Pins 1, 2, 3, 4, 5 and 6 of the MPOW connector for the magenta LED head assembly
        Pins 1, 2, 3, 4, 5 and 6 of the CPOW connector for the cyan LED head assembly
        Pins 1, 2, 3, 4, 5 and 6 of the BPOW connector for the black LED head assembly
              Replace the junction board (PD6 PCB).
   Yes Check the connection of the cables or replace the LED head assembly.
No
        Is +3.3V on the following pins of the HEADPOW connector of the engine board (PX4 PCB)
        being supplied?
        +3.3V: Pin 1, 2, 3, 4, 5, 6
   Yes Replace the HEADPOW cable.
No
        Is +3.3V on the following pins of the POWER connector of the engine board (PX4 PCB)
        being supplied?
        +3.3V: Pin 15, 16, 17, 18
   Yes Replace the engine board.
No
        Check the connection of the cables or replace the low-voltage power supply. Is the problem
        recovered?
   Yes End
No
        Is +32V on the power connector of the engine board (PX4 PCB) being supplied?
        +32V; Pin 7, 8, 9, 10
        Check the connection of the cables or replace the low-voltage power supply.
        Is +32V on pin 2 of the HVOLT connector of the engine board (PX4 PCB) being supplied?
Yes
        Replace the engine board.
   Nο
Yes
        Check the connection of the cables, replace the high-voltage power supply or belt cassette
        assembly. Is the problem recovered?
   Yes End
No
        Is Each terminal of each image drum unit connected to the contact assembly correctly? (See
        Figure 6.3.)
```

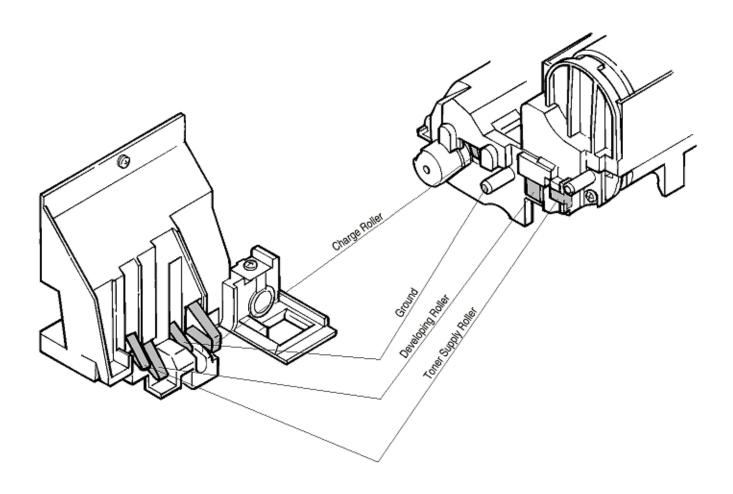


No Make the terminals be in contact with the contact assembly correctly.

Yes Replace the the image drum unit.

Notes: 1. When replacing the engine board (PX4 PCB), demount the EEPROM chip from the old engine board and remount it on the new one.

- After replacing the image drum unit and the belt cassette assembly, be sure to reset their counters in the User Maintenance mode.
- After replacing the LED head assembly, be sure to adjust its drive time and correct its color deviation.



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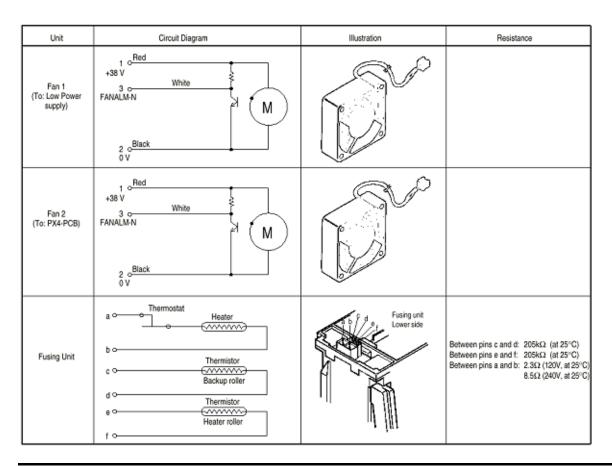
Service Guide - OKICOLOR8 Chapter 7 Wiring Diagram

7.1 Resistance Check

| Unit | Circuit Diagram | Illustration | Resistance |
|------------|--|--------------|--|
| Belt motor | White White White White White White | | Between pins 1 and 2: 7.1Ω Between pins 3 and 4: 7.1Ω |
| YIDU motor | Yellow Yellow Yellow Yellow Yellow Yellow | | Between pins 1 and 2: 7.1Ω Between pins 3 and 4: 7.1Ω |
| MIDU motor | 1 -> Red | | Between pins 1 and 2: 7.1Ω Between pins 3 and 4: 7.1Ω |

| Unit | Circuit Diagram | Illustration | Resistance |
|--------------|--|--------------|--|
| CIDU motor | Blue Blue Blue Blue Blue Blue | | Between pins 1 and 2: 7.1Ω Between pins 3 and 4: 7.1Ω |
| BIDU motor | Black Black Black Black Black | | Between pins 1 and 2: 7.1Ω Between pins 3 and 4: 7.1Ω |
| Resist motor | Orange Orange Orange Orange Orange Orange | | Between pins 1 and 2: 7.1Ω Between pins 3 and 4: 7.1Ω |

| Unit | Circuit Diagram | Illustration | Resistance |
|--------------|--|--------------|--|
| Heater motor | Brown 3 Brown 4 Brown | | Between pins 1 and 2: 7.1Ω Between pins 3 and 4: 7.1Ω |
| FF motor | White White White White White White | | Between pins 1 and 2: 7.1Ω Between pins 3 and 4: 7.1Ω |

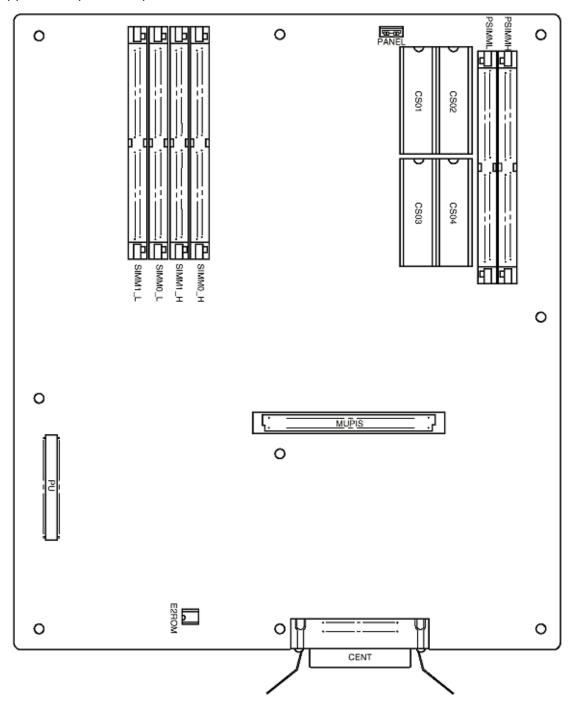


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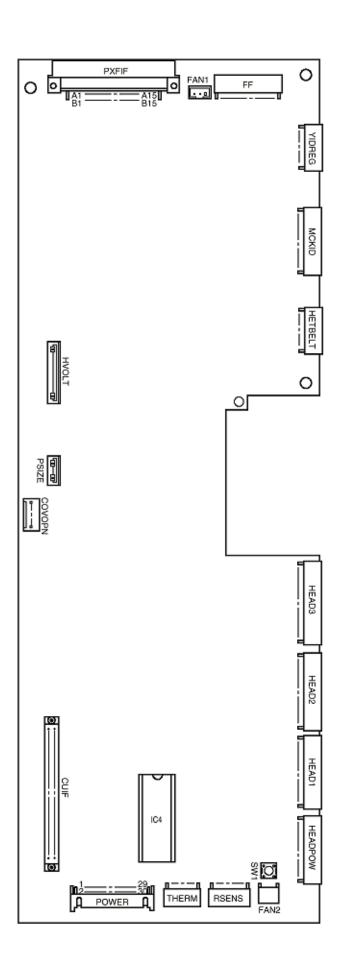




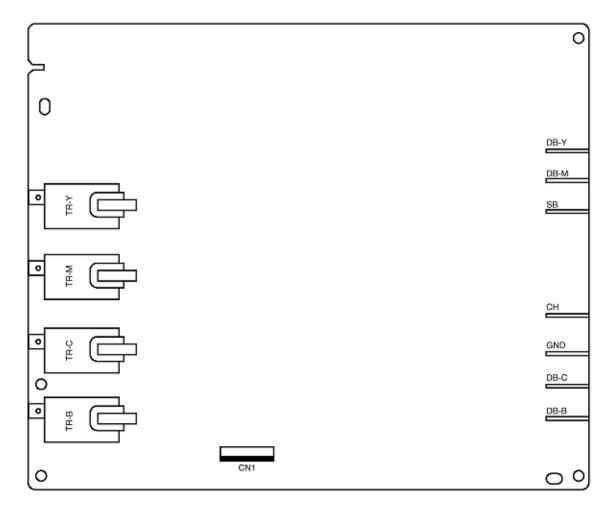
7.2 Program/Font ROM Location (1) PCE-PCB (Main Board)



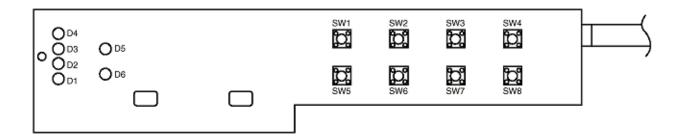
(2) PX4-PCB (Engine Board)



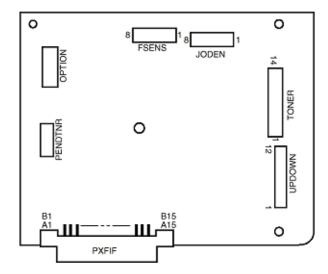
(3) Power-Supply PCB



(4) PCO PCB



(5) PXF PCB

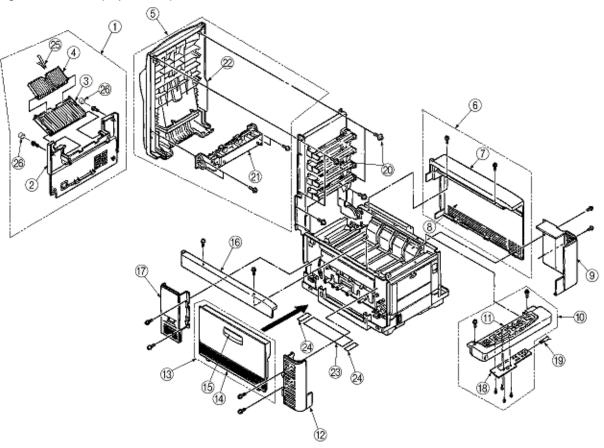


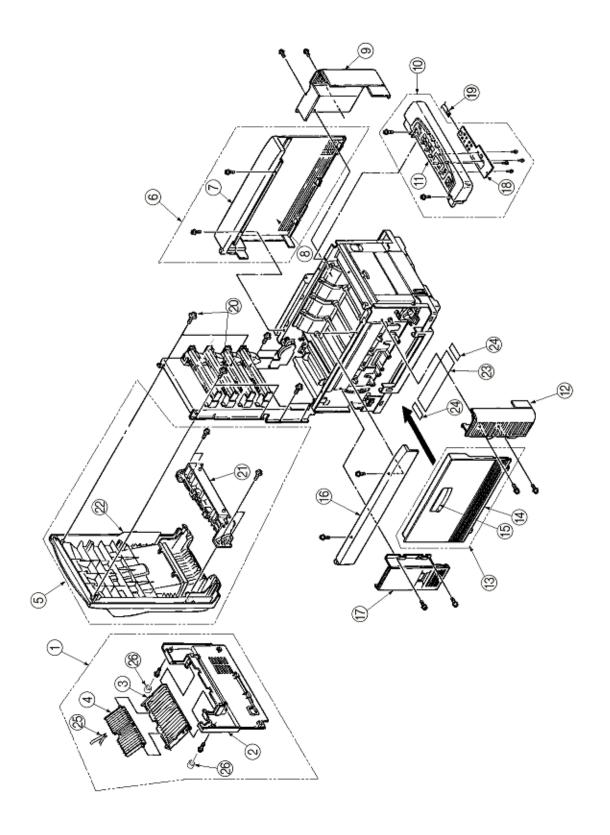
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Figure 8-1: Covers (Top & Sides)



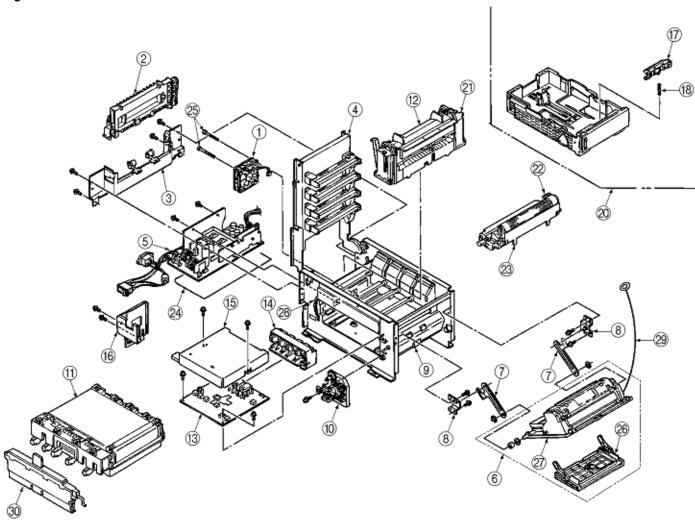


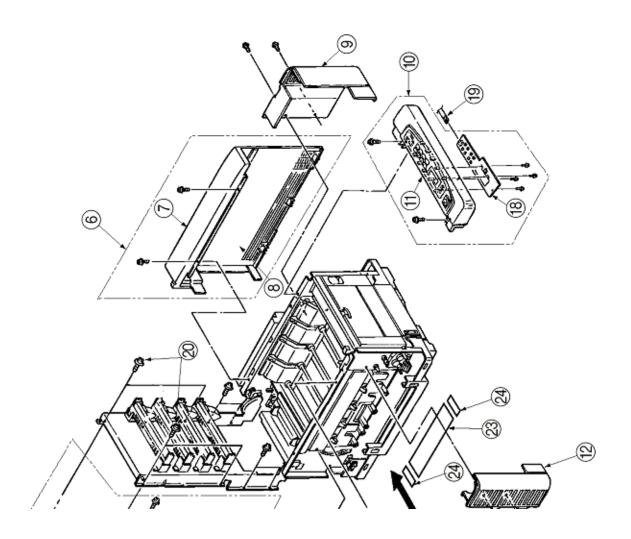
| No. | Okidata Part # | Name | Qty | Remarks |
|-----|----------------|-----------------|-----|---------|
| 1 | 40315201 | Cover Assy Rear | 1 | |
| 2 | 40098401 | Cover Rear | 1 | |
| 3 | 40187501 | Stacker Faceup | 1 | |

| 4 | 40187601 | Support Stacker | 1 | |
|----|----------|---------------------------|---|--------|
| 5 | 40314801 | Cover Assy Stacker | 1 | |
| 6 | 40315001 | Cover Assy Side (R) | 1 | |
| 7 | - | Cover Side (R) | 1 | |
| 8 | - | Frame Side (R) | 1 | |
| 9 | 40098301 | Cover Front (R) | 1 | |
| 10 | 40314901 | Cover Assy OP Panel | 1 | (120V) |
| 11 | 40492604 | Cover Sub Assy OP Panel | 1 | |
| 12 | 40098201 | Cover Front (L) | 1 | |
| 13 | 40315101 | Cover Assy Side (L) | 1 | |
| 14 | - | Cover Side (L) | 1 | |
| 15 | - | Cover Knob | 1 | |
| 16 | 40195601 | Frame Side (L) | 1 | |
| 17 | 40195701 | Cover Rear (L) | 1 | |
| 18 | 40387201 | Board - PCO | 1 | |
| 19 | 40919301 | Connection Code Sumi Cord | 1 | |
| | | Assy | | |
| 20 | 50318701 | Screw | 4 | |
| 21 | 40303601 | Guide Eject FD Assy | 1 | |
| 22 | 40449901 | Cover Sub Assy Stacker | 1 | |
| 23 | 40728601 | Film Waste Toner | 1 | |
| 24 | 40728701 | Foam - Seal (Cover) | 2 | |
| 25 | 40664701 | Spring - Support (FU) | 1 | |



Figure 8-2: Printer Unit



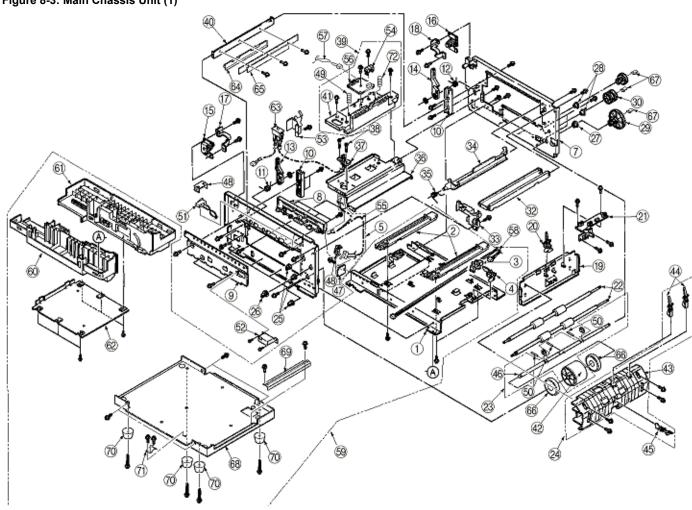


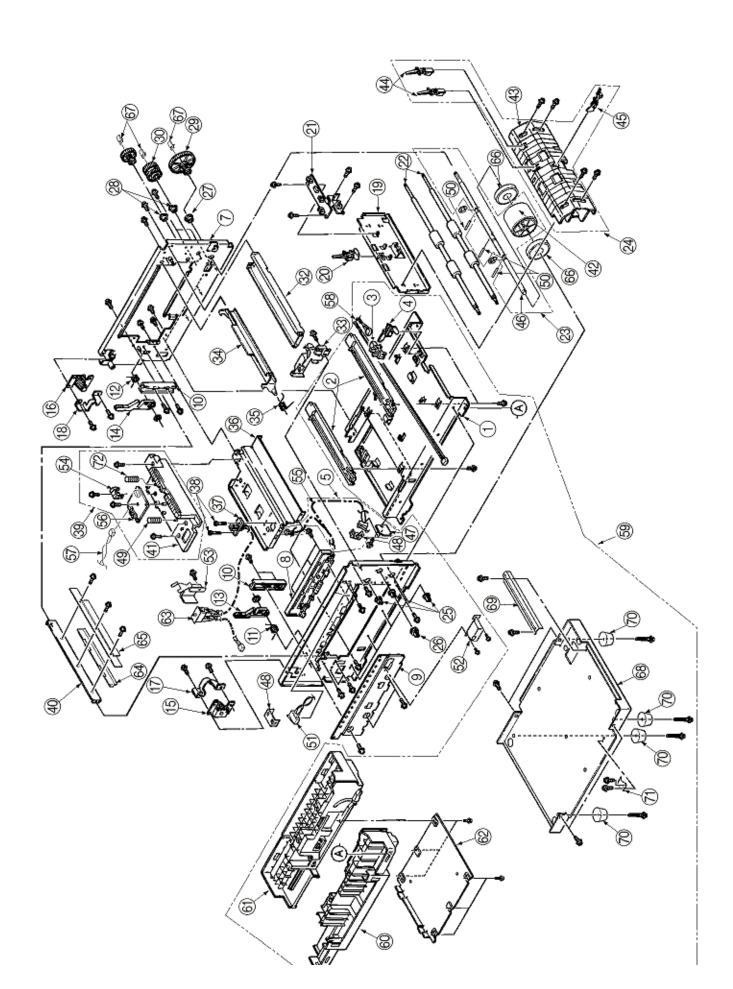
| No. | Okidata Part # | Name | Qty | Remarks |
|-----|----------------|---------------------------|-----|---------|
| 1 | 40255201 | Motor Fan (80-25) | 1 | |
| 2 | 40303501 | Frame Eject Assy | 1 | |
| 3 | 40303401 | Guide Paper Eject Assy | 1 | |
| 4 | 40410701 | Frame Upper Assy | 1 | |
| 5 | 40018901 | Power Unit ACDC Switching | 1 | 120V |
| | 40019001 | Power Unit ACDC Switching | 1 | 230V |
| 6 | 40311201 | FDR Unit Front | 1 | |
| 7 | 40193501 | Plate FF Link | 1 | |
| 8 | 40193601 | Bracket FF Link | 1 | |
| 9 | 40303301 | Guide Paper Input Assy | 1 | |
| 10 | 40309801 | Holder Gear Toner Assy | 1 | |
| 11 | 40490801 | Belt Unit | 1 | |
| 12 | 40645301 | Oil Roller Unit | 1 | |
| 13 | 40065601 | High Voltage Power Supply | 1 | |
| 14 | 40325001 | Bracket HV (BT) Assy | 1 | |
| 15 | 40168001 | Plate HV | 1 | |
| 16 | 40193201 | Holder Innret | 1 | |
| 17 | 40607101 | Separator Frame Assy | 1 | |
| 18 | 41179801 | Separation Spring | 1 | |
| 19 | - | | | |
| 20 | 40744401 | Paper Cassette Assy | 1 | |
| 21 | 40490901 | Fuser Uit | 1 | 120V |
| | 40490904 | Fuser Unit | 1 | 230V |
| 22 | 41012317 | Toner Cartridge BK | 1 | |
| | 41012318 | Toner Cartridge Y | 1 | |
| | 41012319 | Toner Cartridge M | 1 | |
| | 41012320 | Toner Cartridge C | 1 | |
| 23 | 41070217 | Image Drum Unit BK | 1 | |
| | 41070218 | Image Drum Unit Y | 1 | |
| | 41070219 | Image Drum Unit M | 1 | |
| | 41070220 | Image Drum Unit C | 1 | |
| 24 | 40191201 | Sheet Insulation | 1 | |
| 25 | | | | |
| 26 | 40838801 | Manual Hopper Assy | 1 | |
| 27 | 40449001 | FDR Unit Main Assy | 1 | |
| 28 | 40294201 | CONN Cord Wire | 1 | |
| 29 | 40641801 | CONN Cord Wire | 1 | |
| 30 | 40645401 | Waste Toner Box | 1 | |





Figure 8-3: Main Chassis Unit (1)



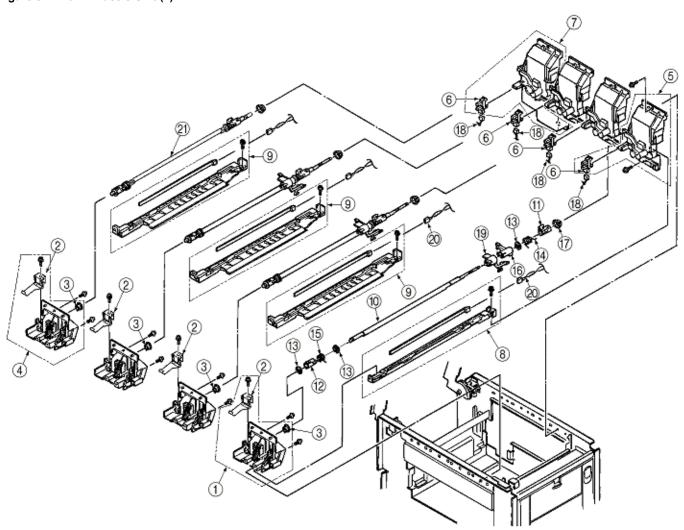


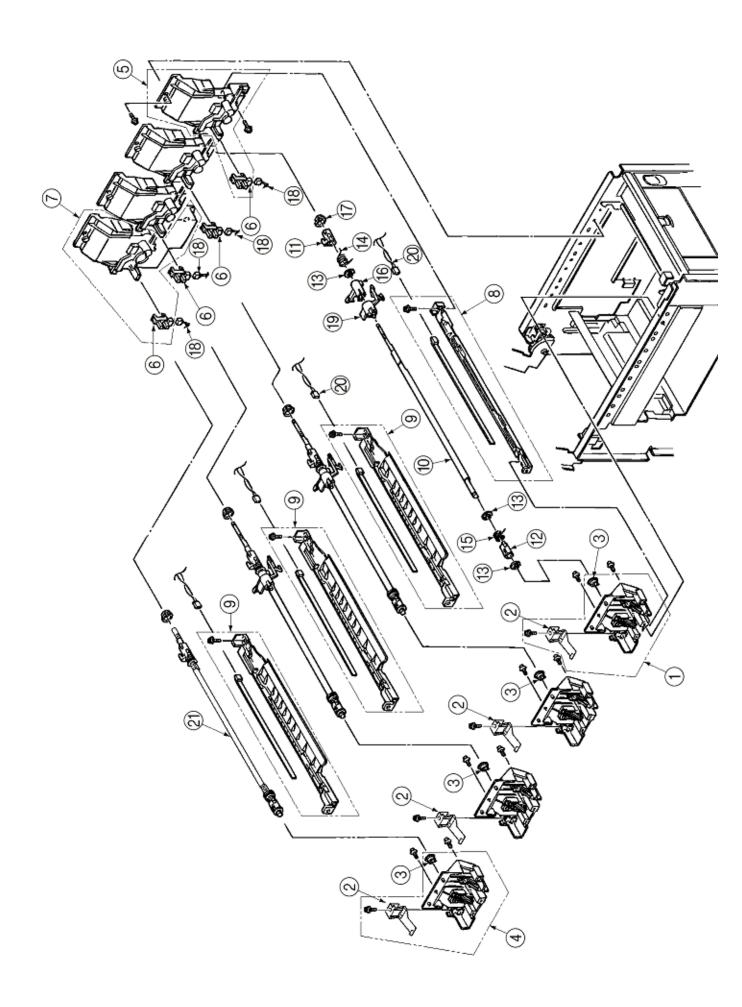
| No. | Okidata Part # | Name | Qty | Remarks | |
|------------------|----------------------|------------------------------|--------|---------|--|
| 1 | 40175701 | Plate Base | 1 | | |
| 2 | 40096401 | Guide Belt (F) | 2 | | |
| 3 | 40135301 | Photo Interrupter | 1 | | |
| 4 | 50808201 | Lever Paper End | 1 | | |
| 5 | 40450401 | Sensor Assy Box Toner | 1 | 120V | |
| | 40171401 | Frame Side (L) | 1 | 230V | |
| 6 | 40171301 | Frame Side (R) | 1 | | |
| 7 | 40308801 | Contact SB Assy | 1 | | |
| 8 | 40290201 | Plate Blind | 1 | | |
| 9 | 40163401 | Guide Side Heat Unit | 1 | | |
| 10 | 40163701 | Spring Lock (L) | 2 | | |
| 11 | 40163701 | Spring Lock Heat | 1 | | |
| 12 | 40835001 | Spring Lock (L) | 1 | | |
| 13 | 40163501 | Lever Lock Heat Unit (L | 1 | | |
| 14 | 40163601 | Lever Lock Heat Unit (R) | 1 | | |
| 15 | 40383701 | Limiter - 2 Way (L) | 1 | | |
| 16 | 40383801 | Limiter - 2 Way R) | 1 | | |
| 17 | 40335001 | Plate Guard (L) | 1 | | |
| 18 | 40335101 | Plate Guard (R) | 1 | | |
| 19 | 40171201 | Stay Lower (Front) | 1 | | |
| 20 | 40144501 | Lever Regist Sensor | 1 | | |
| 21 | 40437601 | Board - PXM | 1 | | |
| 22 | 40130801 | Roller Registration | 2 | | |
| 23 | 40310601 | Roller Assy Hopping | 1 | | |
| 24 | 40303301 | Guide Paper Input Assy | 1 | | |
| 25 | 40261301 | Bearing Hopping | 3 | | |
| 26 | 40130301 | Gear Z20 | 1 | | |
| 27 | 51608201 | Bearing F | 1 | | |
| 28 | 51607301 | Bush | 2 | | |
| 29 | 40250901 | Gear Oneway (96) | 1 | | |
| 30 | 40164301 | Gear Oneway (Z48) | 2 | | |
| 31 | 10101001 | 2001 3110 Way (2 10) | 1 | | |
| 32 | 40171101 | Stay Upper (Front) | 1 | | |
| 33 | 40388501 | Bracket SW | 1 | | |
| 34 | 40195101 | Plate Latchlever (FD) | 1 | | |
| 35 | 40195001 | Spring Latchlever (FD) | 1 | | |
| 36 | 40175201 | Stay Heat | 1 | | |
| 37 | 40563101 | Connection cord wire | 1 | | |
| 38 | 50318601 | Screw | 2 | | |
| 39 | 40162101 | Guide Assy Heat Unit | 1 | | |
| 40 | 40175101 | Stay EP | 1 | | |
| 41 | 40449401 | Guide Assy Heat | 1 | | |
| 42 | 40449401 | Hopping Roller Boss Assy | 1 | | |
| 43 | 40097301 | Guide Paper Input A | 1 | | |
| 44 | 40144301 | Lever Input Sensor | 2 | | |
| 44 45 | | Lever 2nd Feed Sensor | 1 | + | |
| 45 46 | 40144401 40189601 | Shaft Hopping Roller (1st) | 1 | + | |
| 46 47 | | | | + | |
| 4 <i>7</i> 48 | 40450201 40408601 | Bracket Switch Holder Switch | 1 4 | + | |
| | 40264401 | | | + | |
| 49 50 | | Spring Eject Heat | 1 | + | |
| | 50608118 | Knock Pin | 1 | + | |
| 51 | 40447201 | CONN Cord Wire | 1 | | |
| 52 | 40388401 | Bracket Switch (Side) | 1 | | |
| 53 | 40446501 | InterLock Sw Cable Assy | 1 | | |
| 54 | 40162201 | Cover Sensor | 1 | | |
| 55 | 40172401 | AMP6P-AMP4P | 1 | | |
| 56 | 40437501 | Board - PXL | 1 | | |

| 57 | 40171801 | Cordwire AMP7P AMP7P | 1 |
|----|----------|-----------------------------|---|
| 58 | 40447301 | Cordwire JST6P AMP3PX2 | 1 |
| 59 | 40303201 | Plate Base Assy | 1 |
| 60 | 40303101 | Guide Cassette (L) Assy | 1 |
| 61 | 40302901 | Guide Cassette (R) Assy | 1 |
| 62 | 40164801 | Plate Bottom | 1 |
| 63 | 40448501 | Connection cord wire | 1 |
| 64 | 40551301 | Plate Shield Heat | 1 |
| 65 | 40714401 | Heat - Sink (801) | 1 |
| 66 | 40743701 | Roller Assy - Hopping (Sub) | 1 |
| 67 | 40686701 | Spacer - Regist Gear | 3 |
| 68 | 40661001 | Cover - Bottom (Weld) | 1 |
| 69 | 40661501 | Plate - Guide | 1 |
| 70 | 40671001 | Rubber - Foot | 1 |
| 71 | 51025202 | Plate: Ground Contact | 1 |
| 72 | 40834901 | Spring - Eject - Heat | 1 |



Figure 8-4: Main Chassis Unit (2)

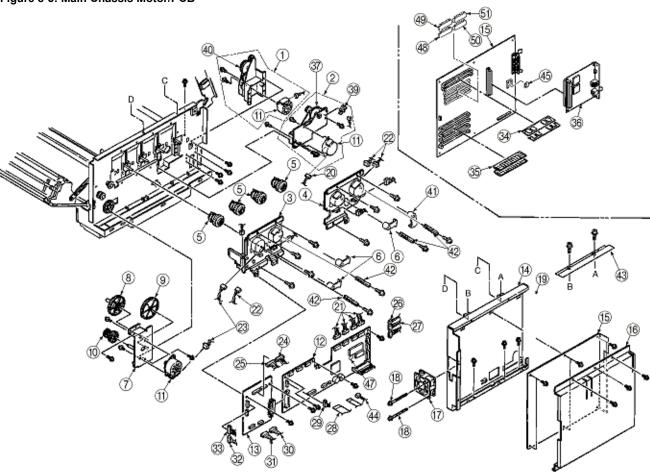


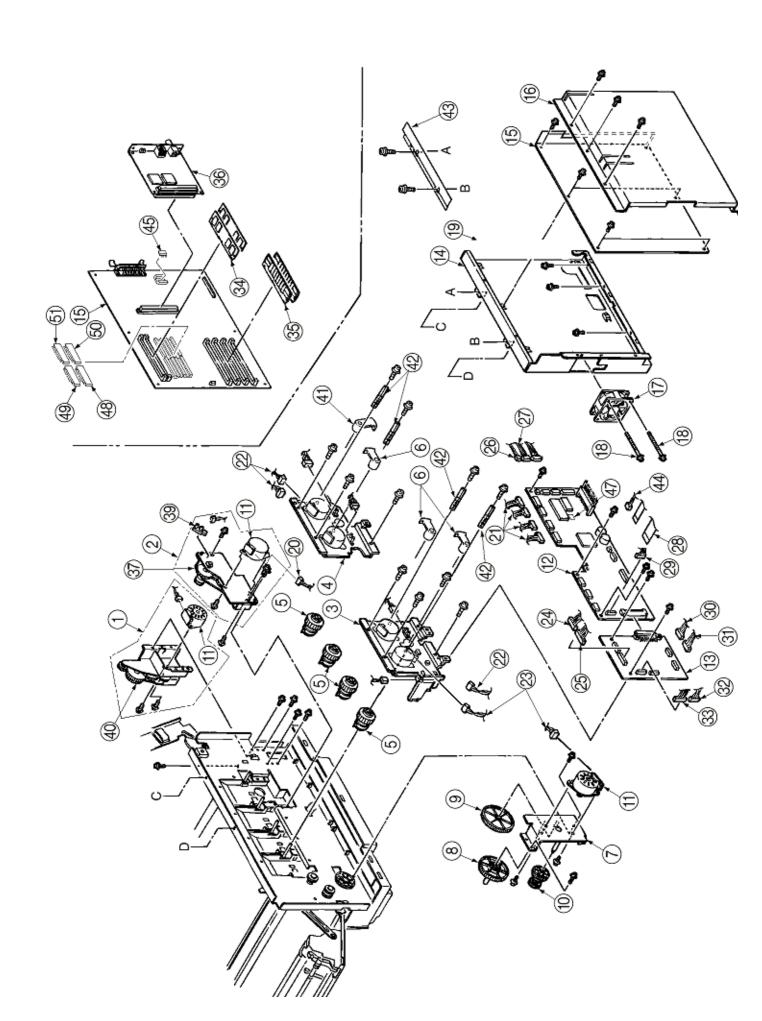


| No. | Okidata Part # | Name | Qty | Remarks |
|-----|----------------|----------------------------|-----|--------------------|
| 1 | 40324501 | Contact (BL L) Assy | 1 | Includes Item 2, 3 |
| 2 | 40278101 | Plate Earth (LK) | 1 | |
| 3 | 51608201 | Bearing | 1 | |
| 4 | 43024401 | Contact (CL L) Assy | 1 | Includes Item 2, 3 |
| 5 | 40324601 | Contact BKT (BL R) Assy | 1 | Includes Item 6 |
| 6 | 40135301 | Photo Interrupter | 1 | |
| 7 | 40309001 | Contact BKT (CL R) Assy | 1 | Includes Item 6 |
| 8 | 40308501 | Eraser BKT Assy | 1 | |
| 9 | 40324301 | Eraser BKT (KCM) Assy | 1 | |
| 10 | 40167901 | Shaft Link | 1 | |
| 11 | 40132301 | Lever Link (R) | 1 | |
| 12 | 40132401 | Lever Link (L) | 1 | |
| 13 | 50705301 | E Ring | 1 | |
| 14 | 40168401 | Spring Support (R) | 1 | |
| 15 | 40188501 | Spring Support (L) | 1 | |
| 16 | * see #19 | Bracket Sensor Toner (KCM) | 1 | Included with #19 |
| 17 | 51608901 | Bearing | 1 | |
| 18 | 40173301 | AMP14P-AMP3X4 | 1 | |
| 19 | 41223601 | Sensor Assy T (KCM) | 1 | |
| 20 | 40172701 | Cordwire AMP8P AMP2PX4 | 1 | |
| 21 | 40664301 | Shaft (k) Assy | 1 | |



Figure 8-5: Main Chassis Motor/PCB

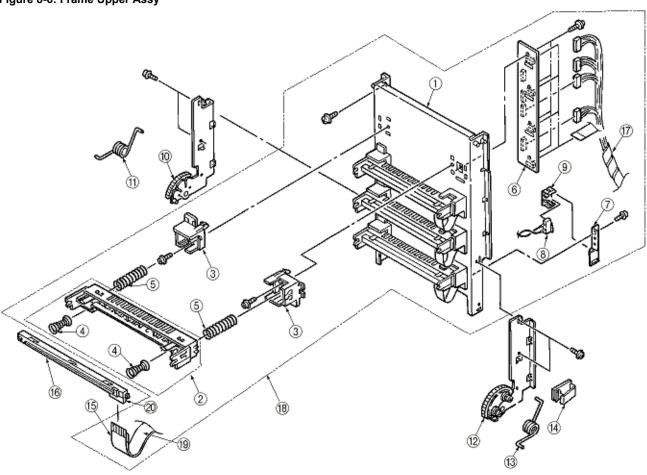




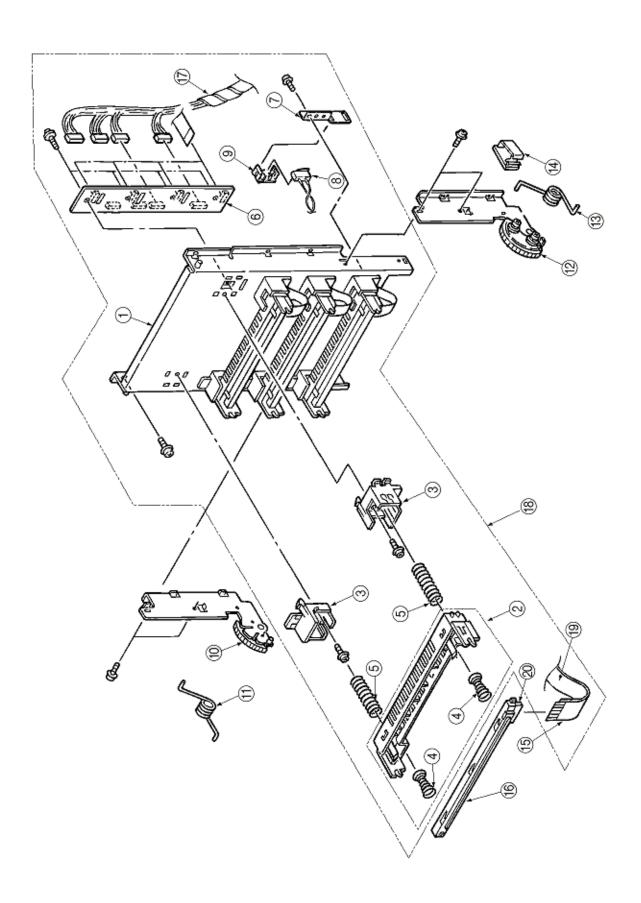
| No. | Okidata Part # | Name | Qty | Remarks |
|-----|----------------|------------------------|-----|-----------------------|
| 1 | 40310001 | Gear Heat Assy | 1 | |
| 2 | 40392301 | Motor Assy Belt | 1 | |
| 3 | 40309101 | Main Motor (A) Assy | 1 | |
| 4 | 40309201 | Main Motor (B) Assy | 1 | |
| 5 | 40208101 | Gear Oneway (Z30) | 4 | |
| 6 | 40664401 | Lever Up/Dn2 (YMC) | 3 | |
| 7 | 40175001 | Bracket Hopping Motor | 1 | |
| 8 | 40143401 | Gear Idle (92) | 1 | |
| 9 | 40143501 | Gear Feed (118/17) | 1 | |
| 10 | 40164401 | Gear Oneway (Z48/74) | 1 | |
| 11 | 40124101 | Motor Pulse (ID) | 3 | |
| 12 | 40634106 | Board - PX4 | 1 | |
| 13 | 40437201 | Board - PXF | 1 | |
| 14 | 40233901 | Cover CU | 1 | |
| 15 | 40950902 | Board - PCE | 1 | |
| 16 | 40376901 | Plate Sealed | 1 | |
| 17 | 40197101 | Motor Fan | 1 | |
| 18 | 54122925 | Screw (SW+2W) | 2 | |
| 19 | 40377001 | IF Plate | 1 | |
| 20 | 40171002 | AMP8P-AMP4PX2 | 1 | |
| 21 | 40456101 | JST12 AMP15 AMP10 AMP9 | 1 | |
| _ ' | 10 100 10 1 | connection cord | | |
| 22 | 40173001 | AMP12P-AMP3PX2 | 1 | |
| 23 | 40171001 | AMP8P-AMP4PX2 | 1 | |
| 24 | 40447101 | AMP12P-AMP3PX4 | 1 | |
| 25 | 40173301 | AMP14-AMP3PX4 | 1 | |
| 26 | 40171801 | AMP7P-AMP7P | 1 | |
| 27 | 40172401 | AMP6P-AMP4P | 1 | |
| 28 | 56636203 | HCUJ (1.25)-16F-300 | 1 | |
| 29 | 40172801 | AMP12P-AMP4, 3X2 | 1 | |
| 30 | 40447301 | JST6P-AMP3PX2 | 1 | |
| 31 | 40177701 | AMP7P-AMP7P | 1 | |
| 32 | 40447001 | JST8P-JST8P | 1 | |
| 33 | 40172701 | AMP8P-AMP2PX4 | 1 | |
| 34 | 40173308 | PS-SIMM | 1 | |
| 35 | | | | |
| 36 | | | | |
| 37 | 40450001 | Bell Motor Mech Assy | 1 | |
| 38 | | | | |
| 39 | 40135301 | Photo Interrupter | 1 | |
| 40 | 40448901 | Gear Heat Mech Assy | 1 | |
| 41 | 40664501 | Lever Up/Dn2 (K) | 1 | |
| 42 | 40583901 | Plate Earth (LKR) | 4 | |
| 43 | 40704901 | Plate Shield (CU) | 1 | |
| 44 | 40447201 | CONN Cord Wire | 1 | Designated in Fig A-3 |
| 45 | | EPROM | 1 | |
| 46 | | - | | |
| 47 | | EPROM | 1 | |
| 48 | | PROM Control | 1 | |
| 49 | | PROM Control | 1 | |
| 50 | | PROM Control | 1 | |
| 51 | | PROM Control | 1 | |
| | 1 | | | |



Figure 8-6: Frame Upper Assy



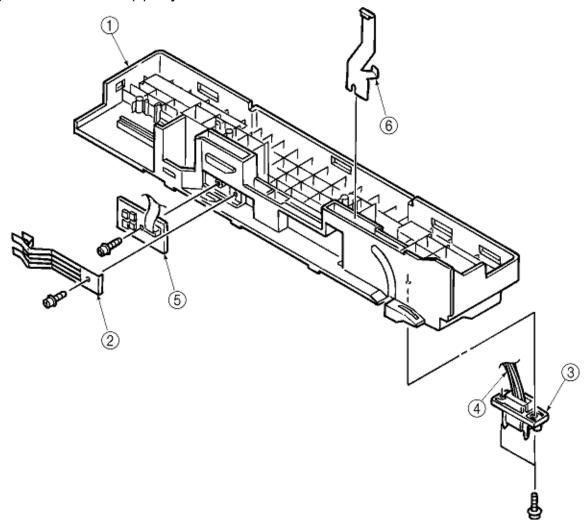
< same diagram -- side view >



| No. | Okidata Part # | Name | Qty | Remarks |
|-----|----------------|--------------------------|-----|-----------------------|
| 1 | 40187901 | Frame Upper | 1 | |
| 2 | 40449101 | Holder LED Assy | 4 | |
| 3 | 40187801 | Guide Holder | 8 | |
| 4 | 40829701 | Spring Head | 8 | |
| 5 | 40197705 | Spring EP | 8 | |
| 6 | 40536001 | Boad PD6 | 1 | |
| 7 | 40394201 | Plate Oil Sensor | 1 | |
| 8 | 40171702 | AMP2P MSW | 1 | |
| 9 | 40408601 | Holder SW | 1 | |
| 10 | 40449301 | Plate Support (L) Assy | 1 | |
| 11 | 40197401 | Torsion Spring (A) | 1 | |
| 12 | 40449201 | Plate Support (R) Assy | 1 | |
| 13 | 40218301 | Torsion Spring (B) | 1 | |
| 14 | 56636301 | Flat Cable Clip | 1 | |
| 15 | 56636201 | HCLU (1.25) - | 4 | |
| | | 14F-140-10S6(B)-MI92896) | | |
| 16 | 40547301 | LED Head Unit 51 M | 4 | |
| 17 | 40456101 | JST12 AMP15 AMP10 AMP9 | 1 | Designated in Fig A-5 |
| | | connection cord | | |
| 18 | 40410701 | Frame Upper Assy | 1 | |
| 19 | 56636206 | HCUJ(1.25)-12F-160 | 4 | |
| 20 | 56730960 | (PXW26-1250B) Connector | 4 | |



Figure 8-7: Guide Cassette (R) Assy

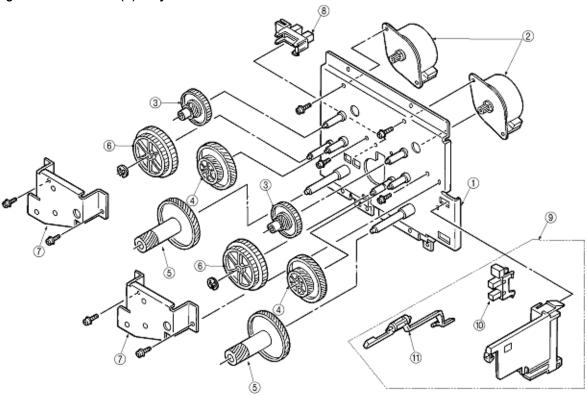


| No. | Okidata Part # | Name | Qty | Remarks |
|-----|----------------|-----------------------------|-----|---------|
| 1 | 40449801 | Guide Cassette (R) Sub Assy | 1 | |
| 2 | 50928901 | Spring Detector | 1 | |
| 3 | 56730640 | Square shaped connector | 1 | |
| 4 | 40177701 | Connector Cord | 1 | |
| 5 | 40368301 | Board - PXC | 1 | |
| 6 | 53346601 | Plate Earth (link) | 1 | |

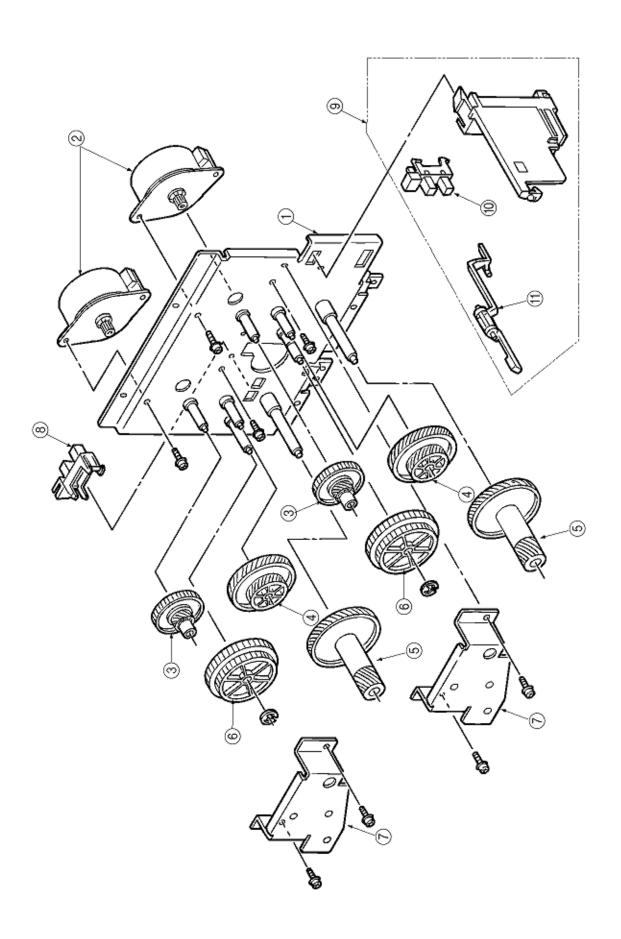




Figure 8-8: Main Motor (A) Assy



< same diagram -- side view >

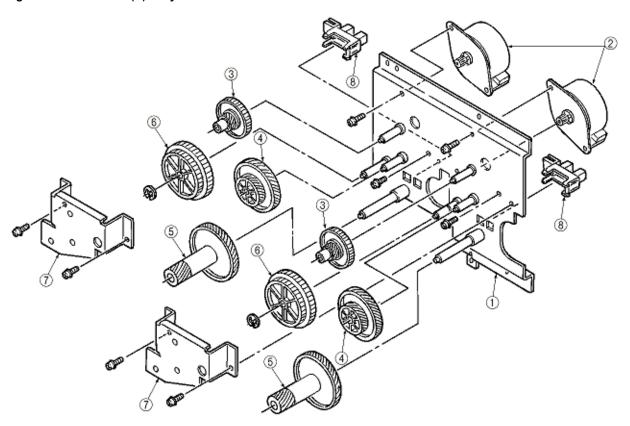


| No. | Okidata Part # | Name | Qty | Remarks |
|-----|----------------|-------------------------|-----|---------|
| 1 | 40165301 | Frame Motor (ID1) | 1 | |
| 2 | 40124101 | Motor Pulse (ID) | 2 | |
| 3 | 40129901 | Gear (25/75) | 2 | |
| 4 | 40130701 | Gear Helical (67/43/24) | 2 | |
| 5 | 40130601 | Gear Helical (67/18) | 2 | |
| 6 | 40130201 | Gear Z53/44 | 2 | |
| 7 | 40129501 | Bracket Support (ID) | 2 | |
| 8 | 40135301 | Photo Interrupter | 1 | |
| 9 | 40308601 | Toner Sesor (Y) Assy | 1 | |
| 10 | 40135301 | Photo Interrupter | 1 | |
| 11 | 40449601 | Sensor Assy T (Y) | 1 | |

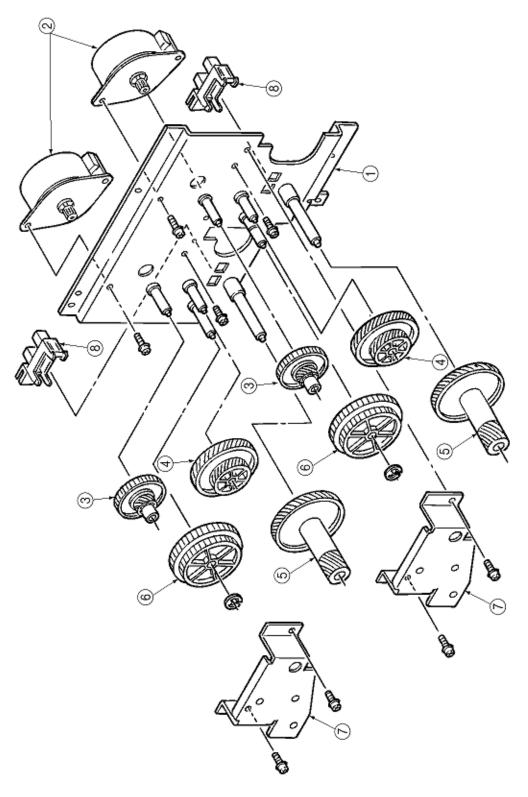




Figure 8-9: Main Motor (B) Assy



< same diagram -- side view >



| No. | Okidata Part # | Name | Qty | Remarks |
|-----|----------------|-------------------------|-----|---------|
| 1 | 40129401 | Frame Motor (ID) | 1 | |
| 2 | 40124101 | Motor Pulse (ID) | 2 | |
| 3 | 40129901 | Gear (25/75) | 2 | |
| 4 | 40130701 | Gear Helical (67/43/24) | 2 | |

| 5 | 40130601 | Gear Helical (67/18) | 2 | |
|---|----------|----------------------|---|--|
| 6 | 40130201 | Gear Z53/44 | 2 | |
| 7 | 40129501 | Bracket Support (ID) | 2 | |
| 8 | 40135301 | Photo Interrupter | 2 | |





Service Guide - OKICOLOR8 **Chapter A Centronics Parallel Interface**

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Centronics Parallel Interface

1) Connector

Printer side : 36-pin receptacle

(single port) Type 57RE-40360-830B-D29A (made by Daiichi

Denshi), or equivalent

Cable side :

36-pin plug Type 57-30360 (made by Daiichi Denshi) or equivalent Plug-552274-1 (AMP), 552073-1 (AMP) or equivalent

2) Cable

• Cable length: 6 ft (1.8 m) max.

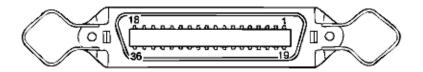
(A Shielded cable composed of twisted pair wires is recommended for noise prevention.)

Note: Cable is not supplied with the printer.

3) Table of Parallel I/F Signals

| Pin No. | Signal name | Signal direction | Functions |
|---------|-------------------|------------------|--|
| 1 | DATA STROBE | $\to PR$ | Parallel data sampling strobe |
| 2 | DATA BIT - 1 | | |
| 3 | DATA BIT - 2 | | |
| 4 | DATA BIT - 3 | | |
| 5 | DATA BIT - 4 | \rightarrow PR | Parallel input data |
| 6 | DATA BIT - 5 | | |
| 7 | DATA BIT - 6 | | |
| 8 | DATA BIT - 7 | | |
| 9 | DATA BIT - 8 | | |
| 10 | ACKNOWLEDGE | ← PR | Completion of data input or end of functioning |
| 11 | BUSY | \leftarrow PR | During print processing or during alarm |
| 12 | PAPER END | ← PR | End of paper |
| 13 | SELECT | ← PR | Select state (ON-LINE) |
| 14 | Auto Feed | $\to PR$ | Request to change Mode |
| 15 | | | (Not used) |
| 16 | 0V | | Signal ground |
| 17 | CHASSIS GROUND | | Chassis ground |
| 18 | +5V | ← PR | 50 mA max. |
| 19 | | | |
| | 0V Signal ground | | Signal ground |
| 30 | | | |
| 31 | INPUT PRIME | \rightarrow PR | Initializing signal |
| 32 | FAULT | \leftarrow PR | End of paper or during alarm |
| 33 | 0V | | Signal ground |
| 34 | - | | (Not used) |
| 35 | - | | High level (3.3 kΩ) |
| 36 | Select In | \rightarrow PR | Request to change Mode |

• Connector pin arrangement



4) Signal Level

LOW: 0 V to +0.8 VHIGH: +2.4 V to 5.0 V

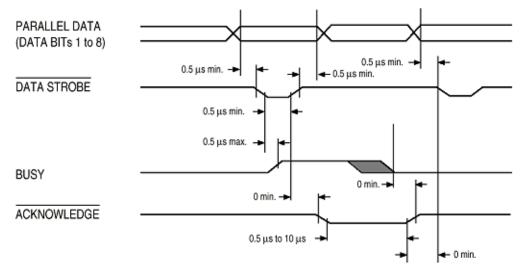
5) Specifications

| Item | Description |
|-----------------|--|
| Mode | Compatibility mode, Nibble mode, ECP mode |
| Data bit length | 8 bits Compatibility mode, 4 bits: Nibble mode, 9 bits: ECP mode |
| Receive buffer | 100K, 512KB, 1M Bytes, AUTO |
| Control | Handshaking control is performed in each mode. |
| | Data received from the host is stored in the receive buffer. |
| | Busy control is performed. |
| | Signal lead control is performed. |

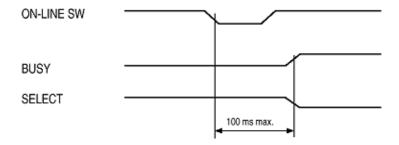
6) Timing Charts

Compatible mode

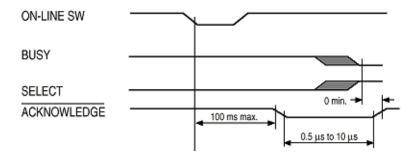
a) Data receiving timing



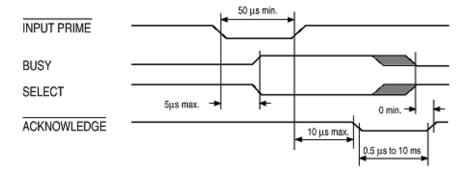
b) On-line (off-line switching timing by ON-LINE SW)



c) Off-line (on-line switching by ON-LINE SW)



d) nInit timing (when set to the effective INPUT PRIME signal)



• Nibble mode

Conforms to IEEE 1284 spec.

• ECP mode

Conforms to IEEE 1284 spec.